SEQUENCE LISTING

<110> Sun, Yonghong
Recipon, Herve
Salceda, Susana
Liu, Chenghua
Turner, Leah

<120> Compositions and Methods Relating to Breast Specific Genes and Proteins

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<140> US 10/082,828
<141> 2001-10-29

<150> US 60/243,805
<151> 2000-10-27

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caccacagcc tcctgtacac cctgagctat gcctctcaag gccctccacc agctcatccc 420

ctgctgtggg cacaagccct gctttcagag tttccctgcc cagggaatga atgcccctg 480

agagaccaca catatgctgc aagtccagcc ctgctcagag ccgttctttg ccaaataatc 540

accttgttat taaagagctg attgttctac tagactcttc tattcttatg gttcaccatg 600

aaagaccagt taattcactt tttaaaaatt acttcaagag ccttgtgttt ggccg 655

<210> 20
<211> 532
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (270)..(313)
<223> n=a, c, g or t

<400> 20
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tttgaagtac ctctgaattt acacataggc attccactca tgtaagcact cattgatttt 180

aagatttttc attcatcaaa agggaaaatg tgggctgcca tatgtataat ttttgtcatc 240

caaaaaagag atataaagtt aaaaattagn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnctataca tctgtttaga tgggaatgtt gacgtggaag tgtatcactt 360

cctgttttac gtccctgtgt aaaacaatca catttcctta ttgatgactg tcttccaaca 420

gaaacgtaat catcttcaag gttagaaaat gtttttttaaa taacttcaac cagcgttaac 480

caaactggtt aattcaccaa aatgttaacc aaaattaacc aaatcaaatt tg 532

<210> 21
<211> 968
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (269)..(312)
<223> n=a, c, g or t

<400> 21
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ttgaagtacc tctgaattta cacataggca ttccactcat gtaagcactc attgatttta 180

agatttttca ttcatcaaaa gggaaaatgt gggctgccat atgtataatt tttgtcatcc 240

aaaaaagaga tataaagtta aaaattagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnctatacat ctgtttagat gggaatgttg acgtggaagt gtatcacttc 360

ctgttttacg tccctgtgta aaacaatcac atttccttat tgatgactgt cttccaacag 420

aaacgtaatc atcttcaagg ttagaaaatg ttttttaaat aacttcaacc agcgttaacc 480

aaactggtta attcaccaaa atgttaacca aaattaacca aatcaaattt ggtttatttt 540

ccaggtctct ttttttcttt ctttttttcat ttttggagag atgggatctt gctatgttgc 600

ccaagctaaa atgcaacttg ttattcacag gcatgataat agtgccctat agcctcgaac 660

tcctgggccc acatgatcct cctgccttag cctcctgagt attcccaggt ttttcttaat 720

agtttaaaca ggtagttcct ggttttggct atcagatagt gctgtctaca ctaggctttg 780

tcttgcttac ttctattctc ccattctctc tgcgaccaag tcttgatctg ttgccccggc 840

tgggagttgc ccggcgcgcg cacctcggcc acctgcaccc ccccccgggc tccgcatccc 900

cgcgccggcc ccaatcctgc ttcccgggcc tccccccccg cctcgccctc cccaaccccc 960

gttccccg 968

<210> 22
<211> 258
<212> DNA
<213> Homo sapiens

<400> 22
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actttgtaac acaggaattc tgcactcatt actgttttgg cattctcaag ccccagttgg 120

ggcacacaag tgtttaatga gtatttaact gatttgcata agaataaatt cattgatttc 180

tttgattttt tgttgctggt tttcagtgaa aaaaatgtta tcagccgcac aacggtgggc 240

tcacgcctgt aatcccag 258

<210> 23
<211> 441
<212> DNA
<213> Homo sapiens

<400> 23
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acatgaaaga acagtgtaaa tcagaattag aaaaatttaa gatgacataa cagaactcaa 120

gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacaccaaa 180

gtgagtaaac aaaaaagaca atgccttagg gcagcagtct ccaaagtgtg ttccagtcct 240

gtagaccctc ttagggaccc tgttcacagt taatactaag atggttaatt gcttttgcca 300

actttgggaa aagcacatct tgtttttttt tttaaactga catttgcatt gataatacaa 360

aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420

agagtcttca ctgccatggc a 441

<210> 24
<211> 604
<212> DNA
<213> Homo sapiens

<400> 24
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acatgaaaga acagtgtaaa tcagaattag aaaaatttaa gatgacataa cagaactcaa 120

gaatagaatt ataaatgaaa gaaaaatttt ctgaaataaa aaccacagaa gaacaccaaa 180

gtgagtaaac aaaaaagaca atgccttagg gcagcagtct ccaaagtgtg ttccagtcct 240

gtagaccctc ttagggaccc tgttcacagt taatactaag atggttaatt gcttttgcca 300

actttgggaa aagcacatct tgtttttttt tttaaactga catttgcatt gataatacaa 360

aagaaatggc aggtaaaact accttagcac taatcaagaa agtgacacca tatcatattt 420

agagtcttca ctgccatggv aaaagaaaga aagaaagtaa gagagagaga aagagaaagr 480

gagaaacaga gaaagagaga aaggaaaaga aagwtaagag aaaagaaaga aaggaaaaaa 540

aagaaagaaa aaaaaggaaa ggaaagggga aagaaaaaga aaagaaaaga aaggaaagat 600

tgaa 604

<210> 25
<211> 406
<212> DNA
<213> Homo sapiens

<400> 25
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aggattttgt tggctcttgg agataatcca taaatacgtt ctttgatact atgcccaaac 120

tctactgtac acttgtgagc aaatgagagt gaaaaaggca tataacgtct tagcattatg 180

aaaatagttt taactttgca gatcccctga gagggtcttg gggataccca gcagtccttg 240

aaccacagtt ttagaaagta ctctggttta gatatgattt tctttttctt tctattgtaa 300

aagttcaagt aaagtttatt tccctctatc ttattacaca agcatattaa caaaggaagc 360

taaaacaaag acagcagtct cagtactcag tatattttct attagt 406

<210> 26
<211> 246
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (65)..(65)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (70)..(70)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (83)..(83)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (88)..(91)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (93)..(93)
<223> n=a, c, g or t

<400> 26
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ttggngggtn tgctttgtat ganatctnng ncnttgaatc taggcctaat tggtagccta 120

acttaccgcc tttcctggaa aatgtcccat gtgtacttgg gaaggatgtg tattctgttg 180

ttgttaggta cagtgttctg tgtgccctgg taaatcaaat tggcttatcg tgccccttca 240

agtgct 246

<210> 27
<211> 190
<212> DNA
<213> Homo sapiens

<400> 27
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atggatcttg aaatattgac atttattaag gaaaactctt ccttagtaga aacatcattg 120

gaaagaccaa ataagtgtc tccatgaagc taggtaacgt cttattatta atatttttt 180

aaatcaggta 190

<210> 28
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (229)..(229)

<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (356)..(356)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (443)..(443)
<223> n=a, c, g or t

<220>
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<222> (474)..(474)
<223> n=a, c, g or t

<400> 28
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catgtggcta ttgattcagc ttatgttctc tagtgctggg cagggaggag ctgaccccca 120

tgggtttgtt atgtgtgctg gttagggccc tgcatgccag tcaagctcct gtcctacagc 180

ctgcctgtgg gaggatctca gtgtgaggtc tggagccctg gaacgaggnc cacctgggct 240

cactctcttc atactggagc agggaaaggg cagagagagc tgcagaccgg aaagtggatg 300

gtctggggtc ggagtccggc ccctgtcacc agctgtgagt cattaagcca gactcnaggc 360

taaggcttcc tcatctgtta aacagcgaca cgcaggggac tgctcatctt tcaggtgcga 420

ggttggggga gtggtgggtg ggnacaggca tggttaactg catgtggaag gggntgttgt 480

tcttgggtat ctggaagtca cacgtggtta taaactggga gcatgtgtgt gtttgttaat 540

agtcttgctc cccaaaatat tctaatatag ctcacaagca cgcacgtaag ccttcaagat 600

agaaatctgt gagtgaagaa aatgaggcaa agggaaaata agaaaagaca gct 653

<210> 29
<211> 822
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (806)..(806)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (818)..(819)
<223> n=a, c, g or t

<400> 29
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tcttcctata agtatcatct atgactcatt aaatactatg aattttgatg tccaaaaaca 120

aatacaggtc tgattatgta caattccaga aatatcatta attaatcacc actcattttt 180

aagatgtgtg aagactgtaa tattggctag tgaattttat cagtattaat atgcatagaa 240

cccacattcc tctttttgat ttgatgtatt atagcatgta tgtattgcta ttttttctctt 300

tttttgaagt ggtgaggaat catgcacagt caatatgctg ggttccttta gaaatgactt 360

tagctcctgt ctgaaggcag gaaaaacttc tttttaagga actttcatca ttgcctttta 420

ctttttctat gatggttttc atgagcactg aaatcacttg gagaggcaat gcaaagaaat 480

ctatctgaaa cagcttcttg gcaccctgga gttacagcta tgaagggctc caacgtaagg 540

gaagcttaat gcttccgaat attgacattg actccttggg tgaaattttg tccaaatata 600

aaattcttca tgttcaacaa ctaaatgtaa taaatgaatt tcatatatac ttacatgata 660

tctttgagat taaattaatt atccttttgt aggaactgac agctttgggt agattatttt 720

ttcagttgaa atgtgttgct aacaatatgc ttacacttga acgctgtttt tcatattgat 780

aggaagacac aaatttctca gggaancagc tttgtganng aa 822

<210> 30
<211> 682
<212> DNA
<213> Homo sapiens

<400> 30
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attataagta ctgctttggc taggaaaatg atctttttttc acccaatctg agggaaaaga 120

tacactttct tccttacttt cctcttttcc cattgtcctt ccttaaagac tagcagcagc 180

agaatttgga aaataaataa tgggcatgtt ttgctaataa tcatgacaaa ctataataat 240

ctgttttgaa ttttacttgc ctgtttctaa attttggagt ctagagaact gctatcaaag 300

ggtaaaatat agtgattcac ctgcagtttt ggttacaggt ttcatattac ataataaagg 360

gagaacttga gccccacctt tcccccagtg tattccttgc ataggcaacc tctgctgctt 420

aaatgttttg gagactttgg gatgtctgat ttcaactgta ccgtgaaaca ggtagtggct 480

tgacttagta agcatctgaa ggactgtttt gttctactct tgcagagtag agtagttttc 540

aaaaggaaag gaaaggaatt gttgagtggg acctatgaag tatagcagga tggatagaat 600

atgaggcaga tgggtcctag tttgctaaag agcttgggcc gtctgataag ttgtcttttct 660

tgccaaacaa gggagtcacg tg 682

<210> 31
<211> 1498
<212> DNA
<213> Homo sapiens

<400> 31
aatatatccg gcctatccta acagtattgg aaggtggacc ctttaagagg taggtatcaa 60

tgacattatc actggacaca ggagtgggct cttgatagaa aaaatgaatt cagctcaact 120

tcctctgtct cacgtgctct catcctctca ccttttacta tgggatgacc ctcaacagat 180

gccagtgtca tgttcttgga ctttccagtc ttcagaatca tgagccaaat aaatctcttt 240

tcttttactt aattactttt ttttttttt ttttgtagag atggggtctt attatgttgc 300

ccaggttggt ctcgaattca tgggctcaag cgatcctcct gcctcggcct cccaaaatgc 360

tgggatttga agcataagcc accacgccca gcgataaatc tcttttcttt aaaattatcc 420

attatccaat ctgtggttac agcaacagaa aatagactaa gacaagaggt aaaggaaagg 480

aggcagggaa gtaggcagga gggcaggaaa gaatgaagga aagggaaacg aagagaggca 540

ggggaaggaa ggggtgtgga cagggaggtg ggaaaggaag ggaagtgagg aagggaggca 600

aggaggcaac gaaacaggga ggcaggaagg acaggcaacc tcggtgactg aaaagcttat 660

acaatgtgta taccccacgt gactcccttg tttggcaaga aagacaactt atcagacggc 720

ccaagctctt tagcaaacta ggacccatct gcctcatatt ctatccatcc tgctatacgt 780

cataggtccc actcaacaat tcctttcctt tccttttgaa aactactcta ctctgcaaga 840

gtagaacaaa acagtccttc agatgcttac taagtcaagc cactacctgt ttcacggtac 900

agttgaaatc agacatccca aagtctccaa aacatttaag cagcagaggt tgcctatgca 960

aggaatacac tgggggaaag gtggggctca agttctccct ttattatgta atatgaaacc 1020

tgtaaccaaa actgcaggtg aatcactata ttttaccctt tgatagcagt tctctagact 1080

ccaaaattta gaaacaggca agtaaaattc aaaacagatt attatagttt gtcatgatta 1140

ttagcaaaac atgcccatta tttatttttcc aaattctgct gctgctagtc tttaaggaag 1200

gacaatggga aaagaggaaa gtaaggaaga aagtgtatct tttccctcag attgggtgaa 1260

aaaagatcat tttcctagcc aaagcagtac ttataatgac cttgtaagaa tctgtgatcc 1320

ttttgccata ccaccttgca aactctgtgt acctgatcaa tgtaatagtc ttttatcctc 1380

acattcggag agtttttaaa atatgggagg tggccaggca cggtggctca tgcctgtaat 1440

ccactgcgcc cggccctaaa aagactatta aagcaagttt ctggattaat ctgagttg 1498

<210> 32
<211> 447
<212> DNA

<213> Homo sapiens

<400> 32
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ccagtggctt ggtatttaaa catcatgctc aggtgtgcag ggtagttttt gagttataat 120

aggtatgcag gcgctgtggg attacttggt tgtttatgta aaaattattt tgcactcact 180

tctgaaatga gtgttagtag aatcatcttt agaggaggtt ccaaggcatt gaactgagat 240

acctgcactg tttgctgtaa atttaagctt aaaattgaaa ccaggttatc agcatttcat 300

gccaggagag agtgggcatg aatgatttca ggaaatgaag agctagattt cagccttgaa 360

tttgcttcca cccttctgtg gcaaattagt gtgggctcac tgagcacttt atctgcccgt 420

ggtaatttat tttaccagac agggtgt 447

<210> 33
<211> 176
<212> DNA
<213> Homo sapiens

<400> 33
gtcctttgta attgactttt tttactgaac atgatgtttc aattactata gcatgtatca 60

gtactttatc acccatgggg tgttaaaaat acagtttaaa aatacagtct ttcacatgtc 120

ctacaaagtg ctagaaaaaa aattttaaaa attgacgggg cgcaggggct gatgcc 176

<210> 34
<211> 307
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (28)..(28)
<223> n=a, c, g or t

<400> 34
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tgctctgtat ctcaattact gttcttcatt tcaattattc ttacctacta ttcagttccc 120

ttgatctttt cttcttgggg gctgtcttag ggtcagggag attgcagaag caccagaact 180

aggagcagcc ctgagacatg gggagttgga gctgaaggag gaatggcagg atgaagaatt 240

ccctaggtga ggacgtgtga gggtggctgg gagaagggag gggtggtcac gaatggacgg 300

aggggat 307

<210> 35
<211> 1104
<212> DNA

<213> Homo sapiens

<400> 35
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acaactccta ggtgtttaaa gaaggaggca ggaagacttg tgaagatggg aactatacaa 120

gaggcaggaa aaaagacaga tgttgggtaa gtaagatctt ggctcacttg attggtaaca 180

gtgaataaac agtccggaga gacttcccca ccacccagct cttactgggt caaatctcgg 240

gttcctcaag gagacaagac tgtaagagag tttgcagaga agagatgagg gtggttttag 300

gtaggaaatg tcagtatggt atggaactgg ggaacaggat tccaggataa ttccctggtt 360

taaaaataaa ggaagtttct gtaatatgtt gtacctgata aatctgcctg tgttctttta 420

ttttctaacc ctcaccctcc agaatgtcca tcaggaaagt ctgaaccaga accgagttta 480

ggtccaggtt ctcgttctgg caaatctttc tccttacctt cttcctccac ccctccacct 540

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tatgattaac tttacattcc atctttcgtc tgctcccaaa cttaacagca ggtaatctgc 780

ttctagcaag tggtgaaggt aagagaagca tctgtatagg aggcaagaga tctgagtcct 840

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cctactattc agttcccttg atcttttctt cttgggggct gtcttagggt cagggagatt 960

gcagaagcac cagaactagg agcagccctg agacatgggg agttggagct gaaggaggaa 1020

tggcaggatg aagaattccc taggtgagga cgtgtgaggg tggctgggag aagggagggg 1080

tggtcacgaa tggacggagg ggat 1104

<210> 36
<211> 1020
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (444)..(485)
<223> n=a, c, g or t

<400> 36
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ggggcagtta acagatgaaa ataacctctc caaagtgcgc tgaagaggct caacctaaag 180

tggctggaac tttgcttata aaataatata ttacatttgg ttactaaaac actaggtttc 240

ctttaattga agaatcccag tttgagtgtt tctcaagtac agtgagtttc aaaggatagt 300

ggtagctagt agtattagtg aaaatagtca taactagcat ttattgaata ttatttgcca 360

aaacgtgcct aacaatttta catgtattat ctcatttaac cagcacaagc aaccctatga 420

gaggtgaatt attgttatcc aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnttttt agtattacac agaagatctg ggactcaaaa ttaacaggct attatcaaga 540

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aattggccat tgttatgttt agaatatttt ttgtgcattt gcaattaaga ataaaaagtc 1020

<210> 37
<211> 1347
<212> DNA
<213> Homo sapiens

<400> 37
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ggggcagtta acagatgaaa ataacctctc caaagtgcgc tgaagaggct caacctaaag 180

tggctggaac tttgcttata aaataatata ttacatttgg ttactaaaac actaggtttc 240

ctttaattga agaatcccag tttgagtgtt tctcaagtac agtgagtttc aaaggatagt 300

ggtagctagt agtattagtg aaaatagtca taactagcat ttattgaata ttatttgcca 360

aaacgtgcct aacaatttta catgtattat ctcatttaac cagcacaagc aaccctatga 420

gaggtgaatt attgttatcc aaatttaaag atgaggaaaa tgaagctcag aaatgtgaaa 480

tgacctttt agtattacac ggaagatctg ggactcaaaa ttaacaggct attatcaaga 540

acatttatga agggaccaca ttatatatga cagcgttgga tgtccagtga attttgcatg 600

atacggagtt gaattagtcc ctggcttcaa ggactttcct ttctctttta tcccttctat 660

tctgttcaca cttttcttct agatactgga actataagcc caaaactact taacatgaaa 720

gactttaggt acacgattcc ccactggcag ctgctttaat ggtgaaggat ttcttgagta 780

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aattggccat tgttatgttt agaatatttt ttgtgcattt gcaattaaga ataaaaagtc 1020

agaatttaaa aatgaaaaaa agaaaagaaa aagccacttc accaaacatt tcctaaaatt 1080

cacagattcc caggggtttg aagacagtat tcccaatttg gaatgtagtc ctgactatcc 1140

caaggatctt ggaatctcag ggttagaagg gatcttaaaa atcacccatt ttaacctccc 1200

ctcaatgcag gaattctctc taaagcctcc tcaacaggcg gccaaccccc atatccgcct 1260

gaatgcttcc agagaaggcg agtcgaatcc tttgttggac agccctgatt gtttttcctg 1320

atgttggtga tgggccttga gaaaaag 1347

<210> 38
<211> 141
<212> DNA
<213> Homo sapiens

<400> 38
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tctgtaagct tggggctact tcctctctga ctgttaaggg agcagccagc aggttaataa 120

aaagttacct gcctaaaaaa a 141

<210> 39
<211> 839
<212> DNA
<213> Homo sapiens

<400> 39
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ctgtcaatga ccttcaatgc tatctctaag aaattcctcc aggagtctgt ctgtcccatg 120

ctagaagcct cagaactgtg cctctgtgtt tttatcctgg acacaatctg cctagaaggt 180

cttccccaaa ctcgtgtcag ctgaattcat acctggtatc tctctccccc agcttagtgt 240

aaacttagtg cagggacttt atcttgcctc accaatgtct tcgccaccca agaataatgc 300

ttggcacaca agaggggggcc aatacatttt tatgaaatga atgtagactt aggatatgtg 360

tctgtttttt gatatgtttc ctgagtggtc agtgttcttc cccaggattc cctgactcca 420

aaccagccct ctgttaggga caaactgccc aagaaacctt cttggtgctg tccacccatc 480

ccccaagcct ctttacattt ctaagccctc acctaggcac cacggtgaag ccagcagact 540

ttgcttatca gaccttgctg caatagccac acccccatta caaacccccc caccctgcac 600

aggggggaggt catgggaaac ataaacaaac tttacctaca ccctcctgta ataaacgtca 660

caaggtaata tgtagcaaaa ttaaccagca aacaacccca ggatgcggcc atacgaaaga 720

actccatcaa actcccctcc ccaatataaa cccctcattc tgtaagcttg gggctacttc 780

ctctctgact gttaagggag cagccagcag gttaataaaa agttacctgc ctaaaaaaa 839

<210> 40
<211> 473
<212> DNA
<213> Homo sapiens

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<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (465)..(465)
<223> n=a, c, g or t

<400> 40
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ttagttttaa tcccgtctct tgggattgcc attgaacaaa gtatatttaa tgagggataa 120

gtcaaaaatg ttgcaaaatc atagcagtaa gaacaatagc aaccatcatt catgggaccc 180

ttaatctgtg tcagcctctt gggcattttt tcattcagtt ttacgacaac cctgtcagac 240

ggttaatatg atttgaatct ttgcagtcaa ggaaactgaa tcctaggcag ggtaagtaac 300

ttccccaagg ccaaatagta ttacagtagt taacctttta ttttgtgttt tatttaaagt 360

catcatcaaa acatattcta atgagcattt attgttgtaa agctctttta gccaggtaag 420

ttcagggcta tccttttaaa gcagtacttt gatgtttttt ttntnttttt ttt 473

<210> 41
<211> 976
<212> DNA
<213> Homo sapiens

<400> 41
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atggctcact atagcctctg cctcccagac tcaaacaatc ctcccacctc agcctgctga 180

ggaacttggg actacaggta taagtgccac tgtgcccagc taatttttgt atttttttgt 240

agagacaggg tttcaccatg ttgcccaggc tggtctcaaa ttcctgggct caaagcaatc 300

ctcctgcctc aacctcccaa agtcctggga ttacaggcat gagccaccac acctgctctt 360

catttttact gttttgaatt caacatttgc tccagtatga atcaaatctt gaccaatatc 420

accctaccca atatcctaca ggcagatgcc tcacctccca gagtaactta gaaaaccagt 480

gccatgagag acccgctcaa tttaaaaaaa aaataaacaa aacatcaaag tactgcttta 540

aaaggatagc cctgaactta cctggctaaa agagctttac aacaataaat gctcattaga 600

atatgttttg atgatgactt taaataaaac acaaaataaa aggttaacta ctgtaatact 660

atttggcctt ggggaagtta cttaccctgc ctaggattca gtttccttga ctgcaaagat 720

tcaaatcata ttaaccgtct gacagggttg tcgtaaaact gaatgaaaaa atgcccaaga 780

ggctgacaca gattaagggt cccatgaatg atggttgcta ttgttcttac tgctatgatt 840

ttgcaacatt tttgacttat ccctcattaa atatactttg ttcaatggca atcccaagag 900

acgggattaa aactaaggag aaactaagtt tttctacctc aaacttcagc tcttcaaagg 960

catatgtggg acctcg 976

<210> 42
<211> 194
<212> DNA
<213> Homo sapiens

<400> 42
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caacttgttt tgttttgctt tgctttttt ctttaaccaa tcaatctctt attgatagat 120

tttgtgtaaa aagatatata ctagtttctt cagaaagatt aacaataaaa attgtgttta 180

tttcaaaaac ataa 194

<210> 43
<211> 378
<212> DNA
<213> Homo sapiens

<400> 43
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tatatggatt cactttcatc cttctagcaa taggaaatac agatcattgt aatatatata 120

tatatatata tatatatata tatatatata tatatatata tacaggctct gctgaattga 180

aatggtgaaa tcaaatcacc attctaaaaa attattactt atattgataa agcctggatt 240

ctctcaactt gttttgtttt gctttgcttt ttttctttaa ccaatcaatc tcttattgat 300

agattttgtg taaaaagata tatactagtt tcttcagaaa gattaacaat aaaaattgtg 360

tttatttcaa aaacataa 378

<210> 44
<211> 662
<212> DNA

<213> Homo sapiens

<400> 44
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tttttccctg caatactctg tagtactact gttctggaat ttcagttctc atgcaacata 120

ccggcccctt tgcacagtga aaacgtaagt atgataagtc ccagtatgtg gaagaactag 180

aagaacccag gagttgtgat cctaaacaac ttttaactgg gccttgttat gatttccacg 240

tgtgatactt tactcattct gagattaaca gtcgcactgg tgaaactgac agccgctata 300

tggccatact aatgtaactt attacaagac aggaagtgag aagagttgtt tgatctagtt 360

gaaaccatgg gggaatttgg gaaagcagag taaatttgct aatttggaag tctgagactt 420

cagagcttgt tattcttgaa gcagttgtta aaagtcagtg gacatcctga ttctcaggtc 480

tccgatgtgg atgtgcatcc tctccggcag catgattttt ccaggaccag aatgtgacag 540

gagcggcccc gcaatagaat tgcaggctca caggccggct gcagcacttg gctgtattgc 600

gaggctcctt tccagctgct tagttcacat gatgcctggt ttataaaacc tagtgaagtg 660

tt 662

<210> 45
<211> 1026
<212> DNA
<213> Homo sapiens

<400> 45
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gatgtccaag ggaggtcagt gataccagga cacgacacca tttgcagcac aggagttcag 120

acagcaccgg ccctggattc acacagagga actttctccc aaaagaacca atcaacttct 180

aactgttgtg gttatttgca taactcaaat gagaagcgag ggccttttgg tttaacttct 240

gtgtcgtatg aggtctggaa tgagtcatat gaacactgga attgtggaat tggagaagag 300

aatgaggacc cacacactat gataaaagtt aaaaagcaag tcaaagagtt ccttctcttg 360

tactcatatc tgcaccacgt ctagaacaac ttcccttccc aagagaatta aaatacattt 420

tttgtttttc cctgcaatac tctgtagtac tactgttctg gaatttcagt tctcatgcaa 480

cataccggcc cctttgcaca gtgaaaacgt aagtatgata agtcccagta tgtggaagaa 540

ctagaagaac ccaggagttg tgatcctaaa caacttttaa ctgggccttg ttatgatttc 600

cacgtgtgat actttactca ttctgagatt aacagtcgca ctggtgaaac tgacagccgc 660

tatatggcca tactaatgta acttattaca agacaggaag tgagaagagt tgtttgatct 720

agttgaaacc atgggggaat ttgggaaagc agagtaaatt tgctaatttg gaagtctgag 780

acttcagagc ttgttattct tgaagcagtt gttaaaagtc agtggacatc ctgattctca 840

ggtctccgat gtggatgtgc atcctctccg gcagcatgat ttttccagga ccagaatgtg 900

acaggagcgg ccccgcaata gaattgcagg ctcacaggcc ggctgcagca cttggctgta 960

ttgcgaggct cctttccagc tgcttagttc acatgatgcc tggtttataa aacctagtga 1020

agtgtt 1026

<210> 46
<211> 112
<212> DNA
<213> Homo sapiens

<400> 46
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tccatataaa caatagtttt atatgaagaa gtgtcatttt gtttttcatt tc 112

<210> 47
<211> 249
<212> DNA
<213> Homo sapiens

<400> 47
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tgatcttgga atcttctgat agccaacatt tattaaaaca gtagtcattg gtcttgatta 120

gatttatgtg tgtatgtggg tgggcggtgg gcagcttaga gtaattttaa ttataaaaaa 180

ttaaaattac ttagagtaat tttaattata aaaaattata aaatttttag tgttataaag 240

actagtgtt 249

<210> 48
<211> 768
<212> DNA
<213> Homo sapiens

<400> 48
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aaaatgcctg tatctgatgg gaaagatgag cccaatgttc ttttttaaaa aacctttatt 120

atgaaatatt tcaactgaac atatgcagtt tatattgtta taaagcataa caagcaatca 180

aacagctgtg aacccaccac tccatgtcag aactagaact tcccaaagca gtcggagctg 240

aggtgagatc cactctgatg cccttcccca actccacgcc acccccaag acctgaccac 300

ctgattactc tgggatttca tttttgtctc gttcccttgc tttgctttat gtctttacca 360

aatgtgaatg tgtgcctaaa caatacagtg ctcgatttgc ttgtgtttaa gctttattac 420

aaatataact ttgatccttc tgctacttgc aattctaaat ttgatattac gagtctcagc 480

ctcatcggcg ttgatgcgtg tgaccgacat tgattcactc tcaccagtac gtggtgtgtt 540

ccgttgcatg catgcacccc tgctggggta tccattctcc tgttggtgga cctttgggtg 600

gtattagttg ctggtcatct ccatgatgct gtcctcttgc aggtctccag gacacatgtg 660

catgagttcc tctaggaaac cacggtgtac aactgctggg ttgcaggccc agggttcttt 720

ccacttctct atcctcccaa gtagggtcca gctggcctta gtgctgcc 768

<210> 49
<211> 2901
<212> DNA
<213> Homo sapiens

<400> 49
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aaaatgcctg tatctgatgg gaaagatgag cccaatgttc ttttttaaaa aacctttatt 120

atgaaatatt tcaactgaac atatgcagtt tatattgtta taaagcataa caagcaatca 180

aacagctgtg aacccaccac tccatgtcag aactagaact tcccaaagca gtcggagctg 240

aggtgagatc cactctgatg cccttcccca actccacgcc acccccaag acctgaccac 300

ctgattactc tgggatttca tttttgtctc gttcccttgc tttgctttat gtctttacca 360

aatgtgaatg tgtgcctaaa caatacagtg ctcgatttgc ttgtgtttaa gctttattac 420

aaatataact ttgatccttc tgctacttgc aattctaaat ttgatattac gagtctcagc 480

ctcatcggcg ttgatgcgtg tgaccgacat tgattcactc tcaccagtac gtggtgtgtt 540

ccgttgcatg catgcacccc tgctggggta tccattctcc tgttggtgga cctttgggtg 600

gtattagttg ctggtcatct ccatgatgct gtcctcttgc aggtctccag gacacatgtg 660

catgagttcc tctaggaaac cacggtgtac aactgctggg ttgcaggccc agggttcttt 720

ccacttctct atcctcccaa gtagggtcca gctggcctta gtgctgccat gctgagagct 780

caggagccaa atctgccagc accctgatct tggacttcca gaactgtgag aaataaattc 840

ctgttcctga agccactcag tccgtgggat tctattagca gtcgggactg acttggacac 900

tgttcctgga gcaacgctag tggcctgggg aagctgggcc ctgggaccag ccctgggctc 960

cggccactcc atggagcccg tggcaaaggc ctgatgtgtc ctcagtgaat ccaggtcaga 1020

gagcggtcga gcagcaacct tggggagcca agtggatgaa aatctggaca agagaacaaa 1080

gccaacctgt tggccaagga aactcaatcc gattataccc cagagccccc cgtggctggg 1140

agcagccgtg tgacagagaa gaaagggtgc tttcatgggc ccggccctgc ctgctggcaa 1200

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aagccttggc caatgaatac cttcaaggtt aaggctcgcc aggataaccc cagcgtgggt 1380

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gcctgggagg gaggcccatg agaatacctg tggcccagag aagaaaggga cttgccccag 1560

gtctcgcagc tcagctgggt gacttttggg aggagcctct ccaagagtaa gtctgtgcat 1620

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ccggtcttgg gtgatgctca gtgaattacc aagtctcttt ttctgcctcc ttgcagagca 1740

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ctcttcacct gcccagggtt ctatcccagc ttggtgtcct tgcctgcaag cacagggtag 1860

cttcacagcg agacctggcc tgccctgcaa gtccacacaa caggagccca ccatggccca 1920

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ggggccatca agggtggaga agccaacctg tccctggtgg ctgcagctgg cataaagccg 2640

gccttctggg agacagccct ctctttttcc ctctcccctt tgcggaacac taaggcactg 2700

ttccggatac ccaccaggag ggtccagcag ggcttctcca aggcatgatg tgtgtgcaga 2760

ccacttaggg atcattagaa gagcctgact cagcagttca gggccctcgg tgtcggcatt 2820

tctgaccact cccatggggt gcccatgctg ctggtttctg gaccactcat tgagaaggag 2880

ggcttcttcc cccaatctca t 2901

<210> 50
<211> 297
<212> DNA
<213> Homo sapiens

<400> 50
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tttggtatat ctagaggtta gccttgcagt gttacagcta cgttattgtg agaaaaggtg 120

gcaaaacgtg gactggaaat ctgtgcagtt aggtgactat gttgttgatg cagtaattaa 180

catattaaca tatctagtga ttaatgaact gtagaaggac aagatggaga tcagttgtat 240

attcctggga tctgtccttg gtactagctt gttaagatgg tataatgatc ttttatt 297

<210> 51
<211> 987
<212> DNA
<213> Homo sapiens

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<222> (502)..(502)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (585)..(585)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (588)..(588)
<223> n=a, c, g or t

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<222> (594)..(594)
<223> n=a, c, g or t

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<223> n=a, c, g or t

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<222> (618)..(618)
<223> n=a, c, g or t

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<222> (636)..(636)
<223> n=a, c, g or t

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<223> n=a, c, g or t

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<222> (645)..(645)
<223> n=a, c, g or t

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<222> (650)..(650)
<223> n=a, c, g or t

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<222> (663)..(663)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (665)..(667)
<223> n=a, c, g or t

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<223> n=a, c, g or t

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<222> (726)..(726)
<223> n=a, c, g or t

<220>
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<222> (729)..(729)
<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

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<221> misc_feature
<222> (769)..(770)
<223> n=a, c, g or t

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<222> (786)..(786)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (797)..(797)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (843)..(843)
<223> n=a, c, g or t

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<222> (845)..(845)
<223> n=a, c, g or t

<220>
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<222> (869)..(869)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (894)..(894)
<223> n=a, c, g or t

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aaaaaaaaaa aaagtctgaa atttgggcct aattgctatt tacccagcga tagacacctg 180

ttctagctgc gacattggct catggatctc acacctgaga ccttagggag agtagagggg 240

aaatttcaag cagctgccag tccatttaga gatagacagc tttaacttgt ggggtttgcg 300

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ccgtacacat actgggcgta cagctaccac tgtgattgct ttaaaaataa tgcactgaga 480

ctgaattcag tatcaataac anggcacgtg tccttcaaaa tgtccactcc aggccttggg 540

ggaaaatggt ttcttaggat gaatcagagg gaaaatttta atcanacnta actnttcttg 600

gaaagattcg acancgtntc agtcatttcc tttgcnaaat ngctncgacn tcnctctttt 660

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gtgttnatnt tttgaaatca gtaatgatat ttgtcnttgt ttcttggtnn gccttcaaat 780

acctcncata tatactnaag agaaacagac tacgagcatg atgacagcat tcacttcttg 840

cgnanataca aaatacaaaa accaaaaant aattaataat ggagacttta tgtnacacaa 900

gttaatacgt tacctaatgt tatgtttagt agcagtttga aattcaagtt tattaaaatg 960

ttattagatc cacaaaaagt actgcct 987

<210> 52
<211> 293
<212> DNA
<213> Homo sapiens

<400> 52
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cagccccgca caggaccact ctctggcatg caccagcgga gaaactggag gcacactggc 120

gcaggagcag ccccaggctt gagggctttt ccagccctgt ctgtttaccc acgtatggaa 180

atgtttactt ttctattttt taccttaaat atgtaacact ggtttgacca aactctcaga 240

ttcatggcac actatcatca ttggtaggtg atggtttgct acggttttta ata 293

<210> 53
<211> 652
<212> DNA
<213> Homo sapiens

<400> 53
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cagccccgca caggaccact ctctggcatg caccagcgga gaaactggag gcacactggc 120

gcaggagcag ccccaggctt gagggctttt ccagccctgt ctgtttaccc acgtatggaa 180

atgtttactt ttctattttt taccttaaat atgtaacact ggtttgacca aactctcaga 240

ttcatggcac actatcatca ttggtaggtg atggtttgct acggttttta atagctggta 300

aagtgaacac ccagttcatt ctcctcatta tctcctggat tcccgcctac cgccatcagt 360

cagtatgccc tacatttttc ttgacgtgaa gcacagcctg gagaatattc cctgaaacag 420

ctctttaaac gcaatccaaa aaaggcatca tgctgactta accatgttat gaggaaattc 480

tctgagagct ggggctgggc aagagccaag agagctgctg acagcaaagt gagagaaggc 540

aggcctcaga aaggagaaga gaaagatgcc tggcaagcga gaagcaactg gaatgctctg 600

taactccaca ttctcctata atttctccaa atttctctca ctaaaaaaaa aa 652

<210> 54
<211> 1300
<212> DNA

<213> Homo sapiens

<400> 54
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gttggatact tacgtgaagg tctgaataaa ttatgatcat tacgaacatg atacatgagt 120

aatgaattaa aagaaatatt taaaagtttt atattttaag tctccaggga gtaaggcatt 180

gagaaaatgg ggtaaatatt tcttgtcgaa gagaaatcaa atatgggtga atcattgact 240

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<211> 2890
<212> DNA
<213> Homo sapiens

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gacagggttt caccacattg gctgggctgg tctcgaactc ctggccttgt gttccacttg 360

cctcagcccc ccaaaatgct aggattacag gcgtaagcca ttgcacccag ccaaggtggc 420

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<211> 581
<212> DNA
<213> Homo sapiens

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tcatgagtga tgggagagat ctgggcaggc aacctcctct catcctgcat catcagcctg 180

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cacgaggata cagaaaccat ttggagccac ctctgcttct c 581

<210> 57
<211> 833
<212> DNA

<213> Homo sapiens

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gagtcaatca caccctaaaa tgcagagccc atagtattgg tgagttgttc atgtgtctct 720

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<211> 473
<212> DNA
<213> Homo sapiens

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gaatgtgcta tttagtttat gtatatttag ggatatttca gagatgtttc tgtgactgtt 240

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<212> DNA
<213> Homo sapiens

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<223> n=a, c, g or t

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<222> (380)..(382)
<223> n=a, c, g or t

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cctggaatgt gctatttagt ttatgtatat ttagggatat ttcagagatg tttctgtgac 300

tgttacctat tttaattctc atatggtcaa agaatatact ttgtatgaat aacatnnnnn 360

aaaaattggt tcaagattgn nntatgaccc agaatgtggt atgtcttggt aaatgttcag 420

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<211> 468
<212> DNA
<213> Homo sapiens

<220>
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<222> (371)..(371)
<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

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<222> (396)..(396)
<223> n=a, c, g or t

<220>

<221> misc_feature
<222> (398)..(398)
<223> n=a, c, g or t

<220>
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<222> (465)..(465)
<223> n=a, c, g or t

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gcattattca tgttttgaat tgtgactgat gactttgcta taccnggg 468

<210> 61
<211> 370
<212> DNA
<213> Homo sapiens

<400> 61
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<211> 417
<212> DNA
<213> Homo sapiens

<400> 62
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<212> DNA
<213> Homo sapiens

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<211> 274
<212> DNA
<213> Homo sapiens

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<220>
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<223> n=a, c, g or t

<220>
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<222> (45)..(45)
<223> n=a, c, g or t

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ctttttctcc attggtattt atttacccta gagt 274

<210> 65
<211> 264
<212> DNA
<213> Homo sapiens

<400> 65
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ggttttgcag gccaagaggc aaaa 264

<210> 66
<211> 1031
<212> DNA
<213> Homo sapiens

<400> 66
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<211> 537
<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

<400> 68
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cactgacccc atttataatc tagaacagca gctttttggg atttgagttt tgttgccttg 1560

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<210> 69
<211> 164
<212> DNA
<213> Homo sapiens

<400> 69
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gtctaattga ggtaaactta cacctgagcc agcaattgtg ctca 164

<210> 70
<211> 1490
<212> DNA
<213> Homo sapiens

<400> 70
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aatattagaa gagcctttac tatcttattg gtgatgacac gtttcttaag taggagtttg 1380

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<210> 71
<211> 225
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)..(22)
<223> n=a, c, g or t

<400> 71
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<210> 72
<211> 519
<212> DNA
<213> Homo sapiens

<400> 72
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tgggcacaga ttttcccatt aaaatttttg acttatttt 519

<210> 73
<211> 1315
<212> DNA
<213> Homo sapiens

<400> 73
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gtggccaggg ccggcacagc aacaccaggt ggctgtccaa atgacaatag cattgagcac 240

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<210> 74
<211> 435
<212> DNA
<213> Homo sapiens

<220>
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<222> (324)..(324)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (355)..(355)

<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (370)..(371)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (385)..(385)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (393)..(393)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (395)..(396)
<223> n=a, c, g or t

<220>
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<222> (399)..(399)
<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

<400> 74
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ctgccatcac catgattaca cactagtttt taaagttaat ataacataga actgacagta 180

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<210> 75
<211> 704
<212> DNA
<213> Homo sapiens

<400> 75
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ctctccatct ccaggtttat attcttcact tggtacttta tcagaacact ttgtactgtg 120

atagcaactc ttactcaaat ttggtaaaac aaacagataa tgagtaaatt gctcttgaag 180

gagtacagcc tctaagactc attggttcag tgacttcaga aacatcactg aggactcagt 240

ttcttcccat ctctctgctc caccatccgt ggggattggc ttctttctca ggcagtttcc 300

cctaagtggt cacaagatgt ctactagcca caaatggaat aagaggttcc cttgtccatg 360

tgcaccagga gacagaaacc tcttcacagc ctttcaatac atattgtccc ttcttttgat 420

ctgaatagtg gccacttaca tcatgaaggg cagtaaccat actcaatgcc cgcactgata 480

gggcatacat ccggacagga tccacctcta gggctgggga tggcttagct ccagctatgc 540

catatgacta tgtgtagaag aaaaaaagga aagtggttac cttggggaga agtagaggaa 600

caaatgctgg gtaagaaact aatagcacca ttaaaatggg gccattgtac ttcattgtgt 660

tattcttttt attctctaaa taaaacaaat tctgaatata aaaa 704

<210> 76
<211> 539
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (527)..(527)
<223> n=a, c, g or t

<400> 76
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aatttttat ttttatttta tttggttaaa agcggtgttc tgatcagtga cagaagtgac 180

ttgggtccac ctttaacaga acgttggtgt agagcaaatc agcacaatct tctcctctat 240

gaacatgtgt gttgactcat gcatactcaa gaaaccctgt gaagcagcct tgaaaagaga 300

ttttttctggc caaggtgata agcaaatact tgtatagatg ttatgactgt gcaaatggtt 360

tgcaaggaga cctcagaaat gacttgcaga agagaatttt gaaaaaaaaa tttaattggc 420

tcgaacacaa tagaaagcca gtcattaatt gtaataactc tctagtgttg atactctaag 480

gtatgagcat acctcagaat taggaccagt tcatattata ctaaaanata aatattgtc 539

<210> 77
<211> 592
<212> DNA
<213> Homo sapiens

<400> 77
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aaaaaaggtg ccaggcagct cacggacaga ggtgctcgtg ccacacagaa ttctcagttc 180

tgggaatttt tgtcaccaaa attgctgagg actcgggcag ctacgtcgcc tgtaccaggg 240

gtgcgcctgc cccaacagtg cctgctgggc cccttaaatc cgccagcctc ctagctgagc 300

catcagtggc tccttggtgg cctcgcaggt ctcctgatct ggcagagtct tgatttagga 360

gcctcggttc caaccccagc cctgcttctg ggaggctctc ctgagcctca gtcccctcag 420

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acaggaggtg gctggctgta gcaataatcg gaaaaatgac agtggctcgg agcagagtgg 540

tggtggtgga ggagaggggt gggcattgtt atctcgaatg aaaacagtct gt 592

<210> 78
<211> 603
<212> DNA
<213> Homo sapiens

<400> 78
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acaccagcat gtgagggcca catgccccac gaggggggtg atctaaggct gagtttgggc 120

agagaggcca aaaaaaaggt gccaggcagc tcacggacag aggtgctcgt gccacacaga 180

attctcagtt ctgggaattt ttgtcaccaa aattgctgag gactcgggca gctacgtcgt 240

ctgtaccagg ggtgcgcctg ccccaacagt gcctgctggg ccccttaaat ccgccagcct 300

cctagctgag ccatcagtgg ctccttggtg gcctcgcagg tctcctgatc tggcagagtc 360

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gggggtcaag gacaggaggt ggctggctgt agcaataatc ggaaaaatga cagtggctcg 540

gagcagagtg gtggtggtgg aggagagggg tgggcattgt tatctcgaat gaaaacagtc 600

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<210> 79
<211> 133
<212> DNA
<213> Homo sapiens

<400> 79
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ctttgtacat atcagaatgt tctgataaaa cttaactttt attaaagtgt ttgtgatata 120

agcataaaaa aaa 133

<210> 80
<211> 349
<212> DNA
<213> Homo sapiens

<400> 80
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aagttaagtt ttatcagaac attctgatat gtacaaagtt aaatatggct gaaaaatgat 180

aaccaggtcc aaattaaaat aacccaacaa aggaaacttt tttttttta agacacaagg 240

tctcattctg ttgcctaggc tggagtgcag tggcatgact acagctcact gtgacctcaa 300

actcctgggc tcaaacaatc ctcttgcctc agccccctga gcagcagct 349

<210> 81
<211> 959
<212> DNA
<213> Homo sapiens

<220>
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<222> (496)..(496)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (498)..(551)
<223> n=a, c, g or t

<400> 81
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<210> 82
<211> 457
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4)..(4)
<223> n=a, c, g or t

<400> 82
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gtgtacaaaa aggatattaa aaactacctg tggattt 457

<210> 83
<211> 844
<212> DNA
<213> Homo sapiens

<400> 83

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<210> 84
<211> 3180
<212> DNA
<213> Homo sapiens

<400> 84
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aaaatgcaag gtgaaagtgc ctttgtctct atgcttctaa aatcgctcat gcttagttgt 3120

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<212> DNA
<213> Homo sapiens

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aacttacttt ttgaaaagtt tataacattt tctcaaattg actaaaaggt aatattagga 180

ccacaagatg aggacaaata tccagaaaat atggcgtgaa aaatattata aattttcttt 240

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tgatttaagt cacccatata gaatactgag tagaaacata ccagtctatg atagactaag 420

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ttggtttttc tcctggaata cgtggatggc gttcttttaa tctgttacac agagtactta 540

aaatcaaagc ctctgaatta ttgtttaatt gttagtatat tttagatcat ggttacattc 600

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aaaaaggtca tttctgttgt tttcaagcat tagccacttg ttattagtaa aatgttgaag 720

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attatctctt tggagcatga tttttgttgt catgttatat acagtagaaa ggtcaaatga 840

tggatgtgac tattacaaat agcagtgatt tatgatgggg tatctgcaaa ataggctttg 900

ctttgagaaa aaaaaatcaa aatctgtgtt ttaaagtagc attaatattt ttgttctgta 960

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<210> 86
<211> 523
<212> DNA
<213> Homo sapiens

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<222> (257)..(257)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (270)..(270)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (272)..(272)
<223> n=a, c, g or t

<400> 86
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gaaagagggg agcctgggga ggctggttta caaacttcaa aaactccacc aaccacaccc 180

aagctctagt ccctgtagta gtaacaatat tactggcttt ctgtgcgtca agacattttt 240

ctaagcactt tacatgnaat gcctcattcn tncttcacaa ccaccctgtg tatttttatt 300

cctccatttt acaaaaaagg aagctgcagt ttcgagtggt tgatactttg cccaaagtca 360

tatagctaat aaggatagat cttatactta aacccaggca gataacaaag cctatacact 420

taacctctta agaatcataa ttccaaattg tatttcttta gtcagtttac agtagaagaa 480

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<210> 87
<211> 390
<212> DNA
<213> Homo sapiens

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<222> (122)..(251)
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<222> (338)..(338)
<223> n=a, c, g or t

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cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn ntcacttctt tacctcagtt ttctcctctt caaaatggag ataatgccta 300

ccttacaaat tgatggtgag aattaaatga ggnnatgngt gcnaaaangt gtgtgtatgc 360

ctggnacctc tttggcatgc nactttgtgt 390

<210> 88
<211> 900
<212> DNA
<213> Homo sapiens

<400> 88
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ttaaaaaata cttctagaga gattctgaaa tcttaatttg gttgcacttt ctggtaatat 180

atttttgaa aactattttg atatttcttt catataacat tattggatct gtatcactaa 240

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cattttgaaa ctgaggccta aaatactgaa atgcttatgt cgttgtactt actccttttct 360

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<210> 89
<211> 1173
<212> DNA
<213> Homo sapiens

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<222> (1030)..(1053)
<223> n=a, c, g or t

<400> 89
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acattattgg atctgtatca ctaagttaat tgtctaaaag gtaactgatt tcatcaaacc 300

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actatccagt atttatattc ctatgtatgt atatcagatt aattttgagg cttggtattc 720

ctaaaagatt tggatgtgtg tatttcttta acttgacgta aacatgtatc acaaacatat 780

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gaatgtaaac cctgcaggta agtaaggata tcc 1173

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<211> 231
<212> DNA
<213> Homo sapiens

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<210> 91
<211> 2518
<212> DNA
<213> Homo sapiens

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<222> (2502)..(2502)
<223> n=a, c, g or t

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<221> misc_feature
<222> (2508)..(2508)
<223> n=a, c, g or t

<400> 91
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agcgtgaact gcagctatga aagtgcattc aggctgggca tggtggctca tgcctgtgat 180

tccagcactt tgggaggcca aggtgggcgg attacttgag gtcaggagtt tgagaccagc 240

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tgggcgcctg taatcccagc tactcaggag gctgaggcag gagaatcact tgaacctggg 360

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gaaactccgt cccaaaaaaa aaaaaaaaaa aaaaatccca aggggctgca gctgccaaac 480

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<211> 611
<212> DNA
<213> Homo sapiens

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aactctccag ccaaatgctg ggagaaggac ctggagggtg agtctttgct gacctctctc 240

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ggctggggag ctcagcttgg tctcagagtc tccccaccag atactgttta aaaaagtagc 480

actgatgtgt tttgtaatct gcccctccca gccctccgtg gaggctgcca gggccttgta 540

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<210> 93
<211> 568
<212> DNA
<213> Homo sapiens

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<223> n=a, c, g or t

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<222> (561)..(561)
<223> n=a, c, g or t

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gcagctaagg gtctaatcta ataacaacag atgcatagtg aatgctcagt aaatgttgaa 180

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atccaaagcc tatattattc naaaaaga 568

<210> 94
<211> 631
<212> DNA
<213> Homo sapiens

<400> 94
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ccgagcctgc caaggttgca cattgtgttt ttatttgagg gcgagtttgg acggcaagac 180

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accccacgcc ggccaagagt tcaacaagca ttggttgaca agtgaatagt gagcacttga 360

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<211> 1123
<212> DNA
<213> Homo sapiens

<400> 95
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ccccgcccag ctgtgggtgt gcatggggag cggtacgagg gagggtaaaa tgggcccctt 180

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ttctccatcg tgagagctca gggctgacaa catgaaagaa aaaggcactg cagccagaat 420

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<211> 516
<212> DNA
<213> Homo sapiens

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<210> 97
<211> 1373
<212> DNA
<213> Homo sapiens

<400> 97
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tacttaaaca tgaatctttt actatcaaaa tctaatatta tttgatactt tcctcctctc 1140

ctggatactc tgttgagctc atttttattc acattgtcat tattgcattg ttttaattct 1200

gtctgtattt tatcttgaca ggtttaattt gtattttcaa tagccattta gatttaccca 1260

caaaatttat ccttttcatt tcctaactag atcctccatc ttgtaacatt ttcttctgcc 1320

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<210> 98
<211> 632
<212> DNA
<213> Homo sapiens

<220>
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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

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<223> n=a, c, g or t

<400> 98
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tttttagata gctttttatg tggcttggaa gtataaagat gtgaaaaaat agttgaaggt 180

taatttttc tttaaggtga ctaatttaac ttgggaatga taaatctcaa gggcaatgaa 240

tatattggga gtgggatctg aatgtatcag aagattcaac aaagcagttt ggggtataaa 300

tataaaaagc aagggtttta ttcttatttt aagaagtgta aaatacactc ctactctaag 360

gtaatgtcaa attagctata actattaaat gcaggtttgt ttcattatta tgttatattt 420

tagtgactta aaggatgaca gaggaggcag aagaagatga accagacttg ggatctatcc 480

tggacacata tttganttat atagctactt aatttaaaaa aatttcttaa aatttatagt 540

cattcctaat cttagattga tatgaaaact gttgttttca ctcacagtgg ttccncatat 600

natcacaata cagttaacca ttnctggtat at 632

<210> 99
<211> 1142
<212> DNA

<213> Homo sapiens

<220>
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<222> (929)..(929)
<223> n=a, c, g or t

<220>
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<222> (934)..(934)
<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

<400> 99
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atgggagggg agccaggtct gaatctccca tctttgaaca ccaggaatag tacttttttat 180

ttgtctatgg aaagaggttg tccttgcttc tctgtgtgga tgagcaacat atagttgcta 240

tgaatttcta ttttggacct gaatttccac caagttcaat ttttagaaat atgcattact 300

atgtacctaa tagttttttt agcatgtaca atctgccaac ttccttacaa cattgataaa 360

agtagaatac acatataaag caactcaaac ttagaaactg accaataaaa gagacactat 420

ttatttttctt ttttttttcc agaacatttc aaaaacttcc catactgttt ttctgttagc 480

ttaagcgttg ttaaatcctt cactttcaca cctactgtca agaacccaaa tttggctgaa 540

gcagcttaag tgattcagtt cacgtcaaac aacatttcac aggattctta cccccaaagc 600

aactctttac tatccagtac ataagactct agaacattaa aattctttat atagtgccat 660

gtggcatcta aaataacttt ggctaggaaa taaaacatat ttgcagaaag tttggggttg 720

aaatcaaaga atggatcaaa gtggcccttc atttggctcc acgtcatctc acaatagtga 780

aatacagcag aatgtcacta aactaccata aaactaaggg gagagacttt gcaaaaacag 840

ggagtgacag acacgttttt tgctcctgtt ttaaagtaaa ttgtactaat gacaacaata 900

gtgatctttt ataggcccaa gttggatcng tgancaattt atagcatttc tgtttcaaat 960

attcaaangc aaaaagtaat ctgccaatta gaaaacaaaa aacttcaaac ttaagtgatg 1020

taatgatgga gcacctgtat ttgactagat gttatataca tgccattgaa agacatagta 1080

cctaatctgc ctaatgtcta taaactggtg caaataaaag acatttaaac catgaaaaaa 1140

aa 1142

<210> 100
<211> 229
<212> DNA
<213> Homo sapiens

<400> 100
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aaatttttac tttccatctt aatgtaacct tatgctattc tgtattttta ctgtatattg 180

cttttacaat aaatataaaa tgaaatgttt atgttgacat ttcagtgtg 229

<210> 101
<211> 1382
<212> DNA
<213> Homo sapiens

<400> 101
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tgcgtgagga actaaggaag gcctactaga ctattttatg ggaagaactg gatttgtggt 120

taaccagagt cctaagatgt gcaaggtcag tgtgtgaact atgctggagt gtgatgtgaa 180

gcagagatca agaaattagt acaacagaga tgttttactg ttgtacttcc catcagtgaa 240

ggatgggaaa gggcttttat tacataccag acactatgat tacatctcat ttttgtacct 300

tatgaaatat ctatgtctac tttatgcatg aagaaactga tgttcatcaa gttttagtag 360

cctatccagc actacagtgc tagtaattga gttaagccag tgacttgcag agctaggatt 420

aaaacctata tattaggccg ggattacagg cgtgagccac cacactcagc cagaaaatcg 480

tttttaaggg ttcttttaga ctatatccag aaaaagtgag ttactaaatt tttttttcta 540

gacagagtct tgctctgtta cccaggctgg agtgtagtgg tgccatctca gctcactgca 600

acctccacct cccgggttca agcaattctc ctgcctcagc ctcctgagta gctggcactg 660

taggcatgta ccaccatgcc cagctaattt ttatattttt agtagagatg gggttttgcc 720

atattggcca ggctggtctc aaactcctga actcaagtga taacacccac cttggcctcc 780

caaagtgctg ggattacagg tgtgagccac cacactgggc caatgcttaa tattttaatg 840

tatctcaaca ataaaaccaa gaagaaacaa agccttttga cttgttagaa tgtattaagt 900

agtattttaa agaaacttta tagttgtgac attgaaagac tgttggggtg gggggaggaa 960

aatttttact ttccatctta atgtaacctt atgctattct gtatttttac tgtatattgc 1020

ttttacaata aatataaaat gaaatgttta tgttgaacaa aaaaaaaaaa aaaaaaaaaa 1080

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggggggg gggcaaaaaa tatctcccga 1140

gggggcccaa attgacgtca cacccttttt tgtgcacaaa ggggccccaa aagggaggcc 1200

gataaaacga aggacgggcg gccggggaca aaagcgctgt cggcggaaac cgcgccctgg 1260

gaactggggg agggacccac ttggcgggcc acccgggcac acccccaaaa gatagagccg 1320

ggcacaaacc tcgcggtagg ggtcacagcg cacgcgcgcg caaatcgccg actataaaat 1380

ca 1382

<210> 102
<211> 816
<212> DNA
<213> Homo sapiens

<400> 102
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tctcaacttc tagcaaatgg atatttacag agcattatag gctctggaac tagaagatac 120

tgcattctta acaatataac aataacatag cttaagcact tatcaagtta tatggtagat 180

taccattagt aatacattga aatatattaa atttagtttt tggcaggctg gataaacacc 240

ctactaattt tctaaatttg taagtagaac tcttcatatt ttgttacact tttgttgaag 300

ttaaatagct tttttatcac aaaatttaag ttcataaatg ttcatgctcc tgagcaaatg 360

aatcttaatc attcagttta gtatacagtg aagaggaagt attggcatga ataatcaaaa 420

aacaaaaaac atgctttgta ataccttaaa ttatccacat gtatcatctg gataatcatt 480

taacccttt ccatactgcc cagctttatt ccaggaacca cctccagcta ttaaaaaagg 540

tttcagaaat tcagagttat ttttattcag gcaaagaagt accaagtatt gtgactagtt 600

agataagggg tgggggggaag acagtagatg gtggatcatt aggcatatta taagaataaa 660

actagtttta tagtgcctca tttttactta cccattcaca tattttgctt acatttcgta 720

gcatcattta ataatttaca aagaaagttg tattacattg tttagatttt gtacatacag 780

gttagctagg tttttagtaa agtgaccttg tgaatg 816

<210> 103
<211> 980
<212> DNA
<213> Homo sapiens

<400> 103
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tctcaacttc tagcaaatgg atatttacag agcattatag gctctggaac tagaagatac 120

tgcattctta acaatataac aataacatag cttaagcact tatcaagtta tatggtagat 180

taccattagt aatacattga aatatattaa atttagtttt tggcaggctg gataaacacc 240

ctactaattt tctaaatttg taagtagaac tcttcatatt ttgttacact tttgttgaag 300

ttaaatagct tttttatcac aaaatttaag ttcataaatg ttcatgctcc tgagcaaatg 360

aatcttaatc attcagttta gtatacagtg aagaggaagt attggcatga ataatcaaaa 420

aacaaaaaac atgctttgta ataccttaaa ttatccacat gtatcatctg gataatcatt 480

taacccttt ccatactgcc cagctttatt ccaggaacca cctccagcta ttaaaaaagg 540

tttcagaaat tcagagttat ttttattcag gcaaagaagt accaagtatt gtgactagtt 600

agataagggg tgggggggaag acagtagatg gtggatcatt aggcatatta taagaataaa 660

actagtttta tagtgcctca tttttactta cccattcaca tattttgctt acatttcgta 720

gcatcattta ataatttaca aagaaagttg tattacattg tttagatttt gtacatacag 780

gttagctagg tttttagtaa agtgaccttg tgaatgtttt agaagggcaa gggaaattat 840

gacccctggt taggagaaaa aaaaaaatgc tgcaagtact agaacactaa gattagccac 900

agtgattttg aagaaaatgt gcctctattg aatggaatta tggaattatc cccctacttt 960

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<210> 104
<211> 426
<212> DNA
<213> Homo sapiens

<220>
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<222> (83)..(83)
<223> n=a, c, g or t

<400> 104
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ccggtctgca gcagcaggtg acagcagcag ggacaatgat aaggagattg gcctgaagga 180

gggaccgtcc ctcccgcgcg gtgagtaggc gggagcggtg ctcggctgtg ccggcgagca 240

gcttgagtca gggtctccgg ggagacgtcc tcaggtccct gtggagcggc cccgaagcct 300

cgggagccag cttcactaga caagaggcag aggtagagaa tgcggctgtg gtgcgtaagt 360

gagtcactgc gtgaggcagt cttttcaaag caggtgggtt tgtgttggac ggattgatgg 420

tgggaa 426

<210> 105
<211> 816
<212> DNA
<213> Homo sapiens

<400> 105
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gttgagaaaa aagcaacctt ttttaatgct taatattggt atttagtatt cttagagagt 120

tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180

cttgaaaatt aaaaatttga gcaccaaaat gaaaaattca ataaagtaga agataaagtc 240

taaggaagta ggataaaaag acaaaaatag aaaataggag tgaaagataa gaaaatttga 300

agctaaatca aggatgtcca atttttgaca ataagagttc cagaaagaaa ggacagagaa 360

aggggaaatg gaactttcca agaacgaaat gacgcaatct ccagattgaa agggtataat 420

ggattaagat tcacttccaa acatatcata ccctagaagc ttctggaaag agaaaaaagt 480

aagccaaata tgtaaagtat cagaaatgga aagtcttctc tctagcaaca ctgaaagcta 540

aaagactgtg aagaaaggcc ttcagaattc tgaggaaaaa tgcttttgga aatagaactc 600

tataaactaa agactcatat caggggctca aaaaatgtac ttctcatggt tatgctccag 660

caaaggacac tgataagaaa gaggaagtca tagatggagg aaacagggaa cctactatgg 720

aagagacaga gagatgtccc aggagaagag aaattcatct ggcctatgga acagccagtt 780

ggtattacag cagaaggatg cagtgctctg gatgga 816

<210> 106
<211> 884
<212> DNA
<213> Homo sapiens

<400> 106
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gttgagaaaa aagcaacctt ttttaatgct taatattggt atttagtatt cttagagagt 120

tagttaaagg tccatgaaag aacaagatgt tatgaaaaag ggacagaaca agcaagtctc 180

cttgaaaatt aaaaatttga gcaccaaaat gaaaaattca ataaagtaga agataaagtc 240

taaggaagta ggataaaaag acaaaaatag aaaataggag tgaaagataa gaaaatttga 300

agctaaatca aggatgtcca atttttgaca ataagagttc cagaaagaaa ggacagagaa 360

aggggaaatg gaactttcca agaacgaaat gacgcaatct ccagattgaa agggtataat 420

ggattaagat tcacttccaa acatatcata ccctagaagc ttctggaaag agaaaaaagt 480

aagccaaata tgtaaagtat cagaaatgga aagtcttctc tctagcaaca ctgaaagcta 540

aaagactgtg aagaaaggcc ttcagaattc tgaggaaaaa tgcttttgga aatagaactc 600

tataaactaa agactcatac aggggctcaa aaaatgtact tctcatggtt atgctccagc 660

aaaggaaact gataagaaag aggaagtcat agatggagga aacagggaac ctactatgga 720

agagacagag agatgtccca ggagaagaga aattcatctg gcctatggaa cagccagttg 780

gtattacagc agaaggatgc agtgctctgg atggaaagtt ttccaggaag aaataaaaat 840

gagtcagaca agtagcctga aaatgttgaa agattttggc caga 884

<210> 107
<211> 1232
<212> DNA
<213> Homo sapiens

<400> 107
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gggagatgta aatttccagg aaatttactc aggcaaaatg gtctttggca gcttaagagc 120

agccctctga ctgacactgg cattggctgt gggggtgaaa gcacaccagg agccatgtgc 180

gtgaaaaggt taatgaattc cagtagctat ggttggagtg ctgatatcat gtgctacctg 240

tatattgact tattaaattt ctccttttca gccatgtgag catatttgat ataaaggcac 300

agttttcttt gaagggcttt tgggtggact gagtcaaccc agtgtgccac atgttatagt 360

cagtgccacg tagagcagta tctgactcat cctactgttg ccattataca ccataaatac 420

ctctccactg aggctaattt taagctctgt ggaattagtt tgatcagaaa cctgaatcaa 480

gcaaagaatt tcataagtgg gaaccattcc tgctagacta gacttactga tttttgtttc 540

actctaatga cagaaaatca atgtgttttg gctgtgtttt tctaatcttg aatctatttt 600

tgttgtacct gctgtgccca atttaccatt cattcattca aaaagtgttt actgagtgcc 660

tatatatgtg cccagcgctt tgcttggtaa taggtatact ataggtagac ataaagtaga 720

gatggttgct gtattaatgg aacttccagt ctagtatagg gagaaagaca agaaattagt 780

tacagttcat aggagctagg attgtctgaa aatagccttg aattctctac tctaggtttc 840

ctggactgtg agatacgggg gagttctctt ctatgtcatg ggaggggctg tgctcaaatc 900

ttatgagtac tggtggcttt gtcttcccta gctagtaggt gtatttcaac tttgctagga 960

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ggccattgtc tctctaacta gaagcaaatc cccatagtat tggttcttgt aggaggagaa 1140

tgagataccc atatcttttg ttctctcact aaccgtggca ttttactcct aacgttttct 1200

ctttccccaa taaagtatat ctttttaacc cc 1232

<210> 108
<211> 870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (443)..(443)

<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (532)..(532)
<223> n=a, c, g or t

<220>
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<222> (534)..(534)
<223> n=a, c, g or t

<220>
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<222> (544)..(544)
<223> n=a, c, g or t

<400> 108
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tcacttttttc tttataatat ttttctaact ctgtctttta agttcctatt acctttagga 120

gtcctccagc aaaaaaatat gaaaccttat tttcatgaaa gccttttttg tttcacaatt 180

tgccatttgt tattaaagcc cctctactga agagctacaa acccatttcc tcctactatt 240

tcatccttcc tattctgttt cttaaatgtc ttctgtgcct taaatgtctt ctgtgcatcc 300

tatggaagaa gaaccctcct aattcagaat tcacagcatg gagagagaag ttatttgctt 360

atttcattca ttaataacta gagccaccaa cataccacat cctatttaat gttgtcatta 420

tttacaaaat gcaagggaaa atngattata gtgaagtgga ctcattcata gcaacactat 480

atatgccaaa atttcagtga cttgaatggg tacacaaaca gtttggtttg tntncaatgt 540

taangtcatg ttttgttgaa atgttgattt ttaaaaaggc ttttgaagta aactgaagaa 600

ttcactttat gagaaaaaca ttagaaactt gtttcctacc tacaaatatc aaaattatta 660

aagaggcatg tgaataatta taattgaaag agtatttaca tttattcatg ttttataatt 720

ctgtgcaaaa aattactaag aattggttca ggttgccatt aatatgaagt gcttagaatc 780

ctgtatatgc caaagaaact gcatctgtga catgtaatat ttttctgttc tattgtaact 840

tgagaatttt actatgatat tttagtttct 870

<210> 109
<211> 210
<212> DNA
<213> Homo sapiens

<400> 109
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cagaaattca agcaattctg gtgactacaa atgcattgtt ttggagaata gttgtaaggt 120

ggaaaaagaa ttaggaactc gacagatagt gagttttaac tttaaataac aattcttctt 180

ttgttttgtt ttgtttgaga cggggtctcg 210

<210> 110
<211> 861
<212> DNA
<213> Homo sapiens

<400> 110
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atggggagta ttcacacatt ttataaccca gaaattcaag caattctggt gactacaaat 120

gcatgttttg gagaatagtt gtaaggtgga aaaagaatta ggaactcgac agatagtgag 180

ttttaacgtt taattaacaa ttcttctttt gttatgttgt gtttgagacg gggtctcgct 240

ctgctgccca ggctggagtg cagtggcagg atcacggttt attgcagcct taacctcctg 300

ggctcaagca gttctccctc ctcagcctcc agagtagctg ggactatagg caagtgccac 360

cacgcctgac taatttttaa atttttttgta gagatggggt ctcccatctt gcccaggctg 420

gccttgaact cttgggctca agcaagcctc ccacctctgc ctcccaaagt ccaaggatta 480

caggtgtgag ccattgcccc cagccagtat aacagttagt gtgtgtgtgt gtgtgtgtgt 540

gtgtgtgtgt gtgtgagaca gaggggtctc attctgttgc acaggaagta gtgtagtggt 600

gcgaccatgg ctacagagaa gatactagaa ttctcaggct caagtgatcc tctcacctag 660

aactagtgag tagcagagga tacaggcata gaataacaga catggaatta attaaaaaaa 720

atgtttagcg tggaagacag ggctctaaac atatgtgacc atggactggt ctagaacatt 780

gtgaacgacg aagataatcc tcgtggactt gggacctcat caaaatggtg ggacatacag 840

gtgtgagcac gggtgcaata a 861

<210> 111
<211> 777
<212> DNA
<213> Homo sapiens

<400> 111
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ctctgaattc attcatttat ttttcatcaa caaatgttta ttgagcttct acaaggcact 120

tgggtactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180

agcaaagaat ttgttgttca actgttagca attttctatt gttaatatgc tagaatgtca 240

gctccacgga tgttggagat tgacccatac gtagaattcc aaatggatat ataggaaagc 300

catttaaaat gtcttaatat cttcagaaag gaatttcaca cttctcttta aaattttgat 360

tttgtcattc tcgttacctg cttatagagg ccttttcatt tgtacattta actccataat 420

ccaagaaaaa gcagtttggc aaggggggctt tgtttggttt gaaatgttct ctttttttag 480

ctttgtaggc cacagaagac tgtgggtatt caaaagtaaa gtaatttaag aaatatgttt 540

gtttaattta taaggtagaa aattagagat agctctaaga attgcagtaa gccacagaaa 600

tcaaatcgca agacttgaat actacctgta ataacttaat ccccaaataa aacgaatgag 660

atgttgaatg tgaacatgct ttgtaaactt gaaggtgttc tgtgaatgct gtacagcata 720

ctagaaggta tgactgtgct agagagaatg gagaattcag ctgccacaaa aatctgg 777

<210> 112
<211> 1076
<212> DNA
<213> Homo sapiens

<400> 112
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tgggtactca agaccagaca gatttgtttt tacaatcata ttagtcattt ccagtctctt 180

agcaaagaat ttgttgttca actgttagca attttctatt gttaatatgc tagaatgtca 240

gctccacgga tgttggagat tgacccatac gtagaattcc aaatggatat ataggaaagc 300

catttaaaat gtcttaatat cttcagaaag gaatttcaca cttctcttta aaattttgat 360

tttgtcattc tcgttacctg cttatagagg ccttttcatt tgtacattta actcataatc 420

caagaaaaag cagtttggca agggggcttt gtttggtttg aaatgttctc ttttttttagc 480

tttgtaggcc acagaagact gtgggtattc aaaagtaaag taatttaaga aatatgtttg 540

tttaatttat aaggtagaaa attagagata gctctaagaa ttgcagtaag ccacagaaat 600

caaatcgcaa gacttgaata ctacctgtaa taacttaatc cccaaataaa acgaatgaga 660

tgttgaatgt gaacatgctt tgtaaacttg aaggtgttct gtgaatgctg tacagcatac 720

tagaaggtat gactgtgcta gagagaatgg agaattcagc tgccacaaaa atctggtctc 780

ttccgctctc agactctgtt gaggaaagaa gatatgcaga aataaccacg tgataaatgc 840

aaaaaagaag atatttttgg gtaatttgag gaaggaaggg gtccccttta tccctggcag 900

tccagagact cttgagaaaa agcatctaag caagtccttg aatgatgtgg catttcaata 960

aaagagatgg agaggaggca tttgagatag gaggactagt aggagatgga gaaacttgga 1020

gacatattca gggaaaagca tcaagtccaa ctgagttaga actggagcag agtcgg 1076

<210> 113
<211> 190

<212> DNA
<213> Homo sapiens

<400> 113
cgtacgtaag ctcggaattc ggctcgagaa tattttcaag tcatattata atgatggggt 60

ttccccccagt actttggatt gaaataaacg ggttagaatg gagaacagat gacaggagtc 120

ttctctgaaa tttctgagag gccacacaat cttaggttga ataaagaagg aataagaata 180

ggaaatacgg 190

<210> 114
<211> 622
<212> DNA
<213> Homo sapiens

<400> 114
tggggttgat tgagaaagtg ggcccaagat aaggaagtcc tgtgggccct cgcagcccac 60

ccgccactat cagcgagcat gtgaggatat tggaccttca cccaagattt catttagggg 120

tatactaggg tttttagtgc taacactatt tgagagaaca ctgccccaac agatctgcat 180

ttacctatta ggcataaaca cttggaatac caaatgtacc agatccgctc atagtagtaa 240

gtcagaagtc agcttccttc ccctgttgtg ttaggatacc accatgcgta atcatcctga 300

aacaaaggtg cgggggagga tttggaaaac ttgttcctaa ataagctgtt ttctaagttg 360

agctcccctt ctctagaaag tttccttagg aacattatgc atattggaga caaagataaa 420

acccttttta ttaaagtaaa aaaaaatgtt gatagttgtt ggtgatgtcc aaataatatt 480

ttcaagtcat attataatga tggggtttcc cccagtactt tggattgaaa taaacgggtt 540

agaatggaga acagatgaca ggagtcttct ctgaaatttc tgagaggcca cacaatctta 600

ggttgaataa agaaggaata ag 622

<210> 115
<211> 801
<212> DNA
<213> Homo sapiens

<400> 115
cggtaacagg aaggacttac cccaccattc ttgggatctg tgtgagctgt ggaaaggcct 60

cttgggagat tataggtaca gaataccggt ggctttcgcg ggactttgaa aactaatgta 120

tgagcatttc tgctgccaga ggatagtgtg gttcgtgact cagtggctgg tcacacagag 180

aaggttgaca cacagtgggt gaaaggttgg aggtgcgcgt gatggggtgg ctgtgtgcaa 240

aaggctgcca ctcagctggt cagggactcg tttgaatgat gagtgatggg tgagaatatg 300

tgtcctctgg atggagttgg ggatgaacag ggaaagttgt gtgagacttt atagaaggtg 360

cagtggctag agcaggcata ttcatgttgc tgtcagtaac agaaccgaag gcaaggtctg 420

agctggagca cggtggggac ccaaagtggg agagactgtg tctgcccaca gggagtttat 480

ggtcaggagg gatgggcaag tacagggata agtaacacaa gacagactgt gtttaaacca 540

cccagtgaag ttacaaccag aggtggtggg aatgcagagg aagaggggag cagagagcac 600

ctgagatggg cttgagttca gaaggggaaa aatgaagggc cctccaggtt gaacagcatg 660

agtgttcaga gacagcatgt atatggttta tggagaacgg tttgcctggt gagtaggtag 720

ctctgggaaa caacacttgg aaaaattgga ttgagttagc atatgtaagg cttaatgccc 780

tgctaagaaa actatactta g 801

<210> 116
<211> 1657
<212> DNA
<213> Homo sapiens

<400> 116
caggtattac tcgactacta ccatgaacga tacagtaact tagccaggcc tggtggtgta 60

aacctgtagt tccagctatt taggaggctg aggtgggaga atctcctgag cccaagaggt 120

caaggtggca gtggctgtaa ttgtgccact gcactcctgc ctgggtgaca gagtgagacc 180

ttgtctcaaa aaaagaaaga aaattttaaa atttcttgaa acaaatgaaa atggaaacac 240

aacatactaa aacctacagg atacagcaaa aacagtacta tgaagaaagt ttatagcaaa 300

agtgcctaca tcaaaaaagt agaaaaactt caaataaaca acctaaaaat gaatcttaaa 360

gaattagaaa agcaaaagca aaccaaaccc aaaattagta gaagaaaaag atcacagcag 420

aaataaatca aattgaaaca gaaaaaacac aaaagatgaa aggaaaaaaa aactgggtgt 480

ttggaaaaga taaacaaaat ggacaaacct ttagccagac taagaaaaaa agagagaagg 540

ctcaaataaa taagatcaga gatgagacat tacaagcaat accacagaaa ttcaaaagat 600

cattagaaac tactggccag gcatggtggc taacacctgt aatcccagcc ctaagtatag 660

ttttcttagc agggcattaa gccttacata tgctaactca atccaatttt tccaagtgtt 720

gtttcccaga gctacctact caccaggcaa accgttctcc ataaaccata tacatgctgt 780

ctctgaacac tcatgctgtt caacctggag ggcccttcat ttttcccctt ctgaactcaa 840

gcccatctca ggtgctctct gctcccctct tcctctgcat tcccaccacc tctggttgta 900

acttcactgg gtggtttaaa cacagtctgt cttgtgttac ttatccctgt acttgcccat 960

ccctcctgac cataaactcc ctgtgggcag acacagtctc tcccactttg ggtccccacc 1020

gtgctccagc tcagaccttg ccttcggttc tgttactgac agcaacatga atatgcctgc 1080

tctagccact gcaccttcta taaagtctca cacaactttc cctgttcatc cccaactcca 1140

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aatctcccaa gaggcctttc cacagctcac acagatccca agaatggtgg ggtaagtcct 1440

tcctgttacc gatgatggct ctgaatttcc aacacgccat aggtctccat gccccttttat 1500

gcttcctggg tctcaaccac ttcaaaaccc ctcaaacagt acctatccaa agcaaatcgc 1560

tgggcaggcc cccaaacaga acctgtgaga cacagttaag gataggaaaa tgcaggcgtg 1620

aagccatgac tgctgaccct tatagaagat gtgcctt 1657

<210> 117
<211> 1041
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (759)..(759)
<223> n=a, c, g or t

<400> 117
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ccagttctgt cttaaggtca cagaaagatc atgatttggt atatatccat atatttttaa 120

ttaaagagga gggttattac tcaagaaatt tgtacaaaat ataaatatac tttttaagta 180

ttaagaaaat atctatactc tacaaataat gttaccatgt agcatatgaa ggttatggta 240

ttctaactaa agaagcttaa gatttttca tgggatattg ttctgccaga aaatatctat 300

gtgcagtgtg gatatatgat gtagaacaaa aaaattgtat atactccaaa gtattattta 360

atgcagaaaa ctgaaaatct tcaaaagtta caaaaaaact tcaccatgtc caatgcagct 420

ggtaggaaaa atatttctgc aagaccagaa ataaactaga agaaggattt acaggagtaa 480

taaaactgag aaaccgctac tcccttcggg tcttgattga ttgcaaggac ctcaaacttg 540

tgtagattgc ccaatttacc ctcttgaaat aaacaaagaa aaagtactga ctgaagcaga 600

tcataaaata taaaacacag aagaaaataa gctaccactc taaagaatga gaaaaaaatt 660

aattgtatac attttagtta ttttaaatat acttaaaata tttaagtaaa cgcaatgggt 720

aaaatagaaa attttaaaaa atgatttgaa aagaccaana aattgtaaac taaacaagca 780

tatttgggaa aggagccaaa gagaaattga aaaaaaaaat aagtttaata cacaatattt 840

gggttaaata ttaagttaga ctcacatgat aaaaagatta gtaaactgca atattgagca 900

gaatgaatat caccaaataa agacaaaata taaaaataca aatataatta taggaagaat 960

atgagaagga aaatacattt aaattatcca atagaatata taaaactata gaatatgtaa 1020

atagaatgta taaacatttc c 1041

<210> 118
<211> 688
<212> DNA
<213> Homo sapiens

<400> 118
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aacatatgtc ctttaaagta agagtacctc cttcccagat acgtgcagag cccagcccta 120

cccagttctg aagccactct gacacagacc aatgtttttt cagggttctc aggcctttat 180

ctcacaggtc tgcaacctgt tctgttgcta caggcaccat atctagtgct gtagtagaca 240

ctaggagaca aaggcgaaaa ggctttcatt cctgacacag cctgcatatt tgctctaatt 300

tgaagtggtg tgaacacact gccaaggaag cccagaggag ggaaggaata aagctgcctt 360

gaaggacaaa gaggaagtgt ttccagagga ggcaacgatt gaatgggacg aaagcttcac 420

aggacttcac tgaaccagag gatggagaag gacactctta ggataggaaa agttgaaaaa 480

tcccaaagag gcatgttaca ctatgaagcg tttggacaat gggctacaca aggttgaaat 540

gggaggttgg aataaactgt tgaagagctt ttagcagcca tggtaaagtg tctggatttt 600

atctcaatgc agcaagggca gggggtgaag aatcacataa taaaataggc atctgctcct 660

gaaataacca tacagaattt aattattt 688

<210> 119
<211> 762
<212> DNA
<213> Homo sapiens

<400> 119
cagaagccca gttatacaaa ttaggctgtc tgatggagac agggatagct ctggctattt 60

atttaaaaaa aaaattattt cctaagtact cattttaaac cctcctctgt tttaatggaa 120

ggtgctgccc ctttaacata tgtcctttaa agtaagagta cctccttccc agatacgtgc 180

agagcccagc cctacccagt tctgaagcca ctctgacaca gaccaatgtt ttttcagggt 240

tctcaggcct ttatctcaca ggtctgcaac ctgttctgtt gctacaggca ccatatctag 300

tgctgtagta gacactagga gacaaaggcg aaaaggcttt cattcctgac acagcctgca 360

tatttgctct aatttgaagt ggtgtgaaca cactgccaag gaagcccaga ggagggaagg 420

aataaagctg ccttgaagga caaagaggaa gtgtttccag aggaggcaac gattgaatgg 480

gacgaaagct tcacaggact tcactgaacc agaggatgga gaaggacact cttaggatag 540

gaaaagttga aaaatcccaa agaggcatgt tacactatga agcgtttgga caatgggcta 600

cacaaggttg aaatgggagg ttggaataaa ctgttgaaga gcttttagca gccatggtaa 660

agtgtctgga ttttatctca atgcagcaag ggcaggggtt gaagaatcac ataataaaat 720

aggcatctgc tcctgaaata accatacaga atttaattat tt 762

<210> 120
<211> 576
<212> DNA
<213> Homo sapiens

<400> 120
ggtgtaagcc accgcacccc gcccagcctg gcagatttta tttaatcatt tgtagcttca 60

ttttcctcgt ctgtcaaaca gggatactgt aatacaacct cagtgtgtca ttgggcagtt 120

taaatgaatg tacattcctg aggcatcaga actttgttca ctgttatata cccaatgcct 180

agaagaggac ctgcacatag caggtgctca gtaaatgttt gttgaatgaa tgattaagtg 240

catgtaaagc attaagcata gcgcctggca gtaagtgctc aatattatga cttcttatat 300

taacacgttt tacatataaa gaaatggagg caagaaagca tttcctttgg ggtttagagc 360

gcttaagttg ttcctctgtt atcatgcctg aattcccccg cccctcagtt acctggggaa 420

gagtaaaggc aagaattctt accagcatta gtcatacatc ctcctgatag gaatctgcga 480

aaacacacac ttctgctttt agttctattc ttagaattct ctcctgggct gttgctcctt 540

tgttccttca ttgtaataaa aatggattct gaaagc 576

<210> 121
<211> 1055
<212> DNA
<213> Homo sapiens

<400> 121
ctcagcctcc agagtagctg ggactacggg cgccccacca ccacgcccgg ctaatttttg 60

tatttttagt acagacgggg tttcattgtg ttagccggga tggtcttgat ctcctgactt 120

gtgatccgcc tgcctcggcc tcccaaagtg cttggattac aggtgtaagc caccgcaccc 180

cgcccagcct ggcagatttt atttaatcat ttgtagcttc attttcctcg tctgtcaaac 240

agggatactg taatacaacc tcagtgtgtc attgggcagt ttaaatgaat gtacattcct 300

gaggcatcag aactttgttc actgttatat acccaatgcc tagaagagga cctgcacata 360

gcaggtgctc agtaaatgtt tgttgaatga atgattaagt gcatgtaaag cattaagcat 420

agcgcctggc agtaagtgct caatattatg acttcttata ttaacacgtt ttacatataa 480

agaaatggag gcaagaaagc atttcctttg gggtttagag cgcttaagtt gttcctctgt 540

tatcatgcct gaattccccc gcccctcagt tacctgggga agagtaaagg caagaattct 600

taccagcatt agtcatacat cctcctgata ggaatctgcg aaaacacaca cttctgcttt 660

tagttctatt cttagaattc tctcctgggc tgttgctcct ttgttccttc attgtaataa 720

aaatggattc tgaaagcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gcacaagaag 780

gaagaacaaa aaaatagcac aataaaagac aacgaagaca tagggaagcg aagaaacaaa 840

gaaagagaca gccagagacg aagcaagaag aaacagacag cagcagaacg gaaagacgaa 900

caacgaactg cgacaggata gcaaccgaaa ccacatagac atagaagcca gaacagaacg 960

caagggaaga gaaaaaaaca ggacgaggaa aggaaataga caccacaata gagaggcaat 1020

aaccggccac gaaacaacaa gagacgagac cacaa 1055

<210> 122
<211> 556
<212> DNA
<213> Homo sapiens

<400> 122
accgattttc ctacatatat gccaactttc atggctcttt ccttaccaca tggaaaactt 60

ttgaagtagt gtgatgttga agaagaattt gtgatatgtt caccacatat gctttagaga 120

tattctacat ctaaatatcg ctgggagtta gagttgggag agatttgctc tagaagcaac 180

atcattggtg gtgacacctt gtataatgaa ttagaaagga ctatagaaaa gtagagtcac 240

ctagaaatgg ttttaactgg gttttaccag ttagaactct gtgatttgga atatgttatt 300

taacttctct gggcctccgt gttctcaaat ataaaattgc tgtgatgatc cctacgttat 360

aggattgttg tgaggctttg tgaaggaggg aacacatgta aagagtttag cacaaggctg 420

gacacatagt caggctcaac aaatggcgat ggtagttgtt tcctaagcaa ttctatacta 480

cagagaacat tctcataaaa ggctgttcac aggcgagctt aggccttcag tccttcaaat 540

agacactaac acgagc 556

<210> 123
<211> 749
<212> DNA
<213> Homo sapiens

<400> 123
acctgttatt acaggcatga gccaccgcgc ccagccccat ttcatgtctt ttcagccaca 60

atattagatc cattaatctg ttttaaggac acaccgattt tcctacatat atgccaactt 120

tcatggctct ttccttacca catggaaaac ttttgaagta gtgtgatgtt gaagaagaat 180

ttgtgatatg ttcaccacat atgctttaga gatattctac atctaaatat cgctgggagt 240

tagagttggg agagatttgc tctagaagca acatcattgg tggtgacacc ttgtataatg 300

aattagaaag gactatagaa aagtagagtc acctagaaat ggttttaact gggttttacc 360

agttagaact ctgtgatttg gaatatgtta tttaacttct ctgggcctcc gtgttctcaa 420

atataaaatt gctgtgatga tccctacgtt ataggattgt tgtgaggctt tgtgaaggag 480

ggaacacatg taaagagttt agcacaaggc tggacacata gtcaggctca acaaatggcg 540

atggtagttg tttcctaagc aattctatac tacagagaac attctcataa aaggctgttc 600

acaggcgagc ttaggccttc agtccttcaa atagacacta acacgagcac ctgctttgca 660

tgtagcattg tgctaggtgc aagagaatca gacatgtaaa acaaaatccc tgctctaatg 720

ttcatagtga gtagaaaata aaaacaagt 749

<210> 124
<211> 122
<212> DNA
<213> Homo sapiens

<400> 124
gtgaaaacct ttctttcctt ctctgcttgt gatagagagt gaatgaaggc agtcggggcc 60

gggtgggtcg ggggatatcc atgtcccagt gttagtgttg ttctgacaaa actcatgctt 120

tc 122

<210> 125
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (488)..(488)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (528)..(528)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (553)..(553)
<223> n=a, c, g or t

<400> 125
agaaatttag aatttaaatg ttgtttaggt catcttttgg tagatccaat caagtttaaa 60

attctaccat gtcttggata tgagcatatg actcattgat ggcgttcagt aaaatctttc 120

tgtgtagttg gtttaaaatt tgacttaaaa cagggatata atatttacct tccctagagt 180

aacagattta tgttatgtaa taaccttgac atgtttacaa aatcatgttt aatgggctct 240

ccagagctcc agtgaatacc acaatttggt ctgttttcaa catttttaag gaatctggga 300

aagctgtagg aaatgaaata tgtgtcctaa acttttttgta tcaggcttaa ctactgcttt 360

cttgaagttt agcaaaagga taaaggactg tatgttcttc cattaactgt agtcaaaact 420

gaatttaagg atttttgata gctgtttaga attactgttt gaatctctac tacaaagaat 480

attaagantt ttagcattga gagtcctaat atacccactt aacaatcntt agacttactt 540

tgggagggcc aangcctaag ggtcacatgg tcaggagtcc taa 583

<210> 126
<211> 91
<212> DNA
<213> Homo sapiens

<400> 126
accgcgccca gttgtgcatt tctggtttct aagaatcaaa ccacttggct gtttttagga 60

gttacttccc atgttataaa gctgaggaag c 91

<210> 127
<211> 869
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (400)..(634)
<223> n=a, c, g or t

<400> 127
gatgatttta ggtttaggca tgttcagttg gaagtactgg aatatccaag tgaagaaatc 60

cattgttagc tagttagata ggtatattgt agggtattct ctttaacata aaaatggatg 120

agtgtttaat aatttaaaaa taatagaagt tgaccagtta gttgtatctt ctgtggattt 180

gagaatcatc aggacataaa ttataattga aagcacggga atggaggatg acctaggaaa 240

tgtaaagaat gagaaggaaa gattgttgaa gatggaaccc tggggaatgc tggctttaag 300

aaggggccac cgcgcccagt tgtgcatttc tggtttctaa gaatcaaacc acttggctgt 360

ttttaggagt tacttcccat gttataaagc tgaggaagcn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 600

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaagtg ctggattgca ggcatgagcg 660

cctagccagg aagctatctt ttcttgagtt atgaaacttt gcaacagttg ttcaaattgg 720

tgtttgtcct tcctatagct ttcatatttt caaattaatt ctgtatggct atataattta 780

tgttttaaaa ggcattctct tgactttgga aatatggaag tctctccttt aacctattct 840

tgttcccatt cccagtctca tttgaaatc 869

<210> 128
<211> 585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (40)..(40)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (79)..(131)
<223> n=a, c, g or t

<400> 128
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gataagatca ggttgaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn naatttctta gagactaaca tgattaaatc aaatcagact gattttagaa 180

acaaacaaaa aatgctaaat ttattacttg aatactaaaa ctgattttta cataaatatt 240

atactgattt caaaataaaa atggttatac ttaattaata tttaacaatt aagttgttga 300

atacatattt caatattgaa agttttttat acattatttt ctttatgagt tttatatgcc 360

ctcttacatg aggggatcaa aaaacattca gatggataag tgagaggatg caaaaaaatg 420

taggcataaa attacaccat gtgtatggaa aacaatgaat attttattta ccattatttt 480

ctaatataca tccatactca taaattcatt atactttcgt tgatgagaca tcaattttac 540

attcagctaa actctcattg taactgtgta ccttctcaat tataa 585

<210> 129
<211> 118
<212> DNA
<213> Homo sapiens

<400> 129
accacacctc accagatttt taaaaaatat ataactgcat ctctcttgat tctggggctt 60

ggtaaaaatg gatagataag atagtattct aaattcaaat tcgtggctag gcacagtg 118

<210> 130
<211> 1436
<212> DNA
<213> Homo sapiens

<400> 130
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tgtaactttt gaagaaagta tgcttggtgc ttaaaattgt atatgatttt aggtaagaaa 120

ctttgataat attggcataa tttagattta ttttctttct ttttttgag acagtctcac 180

tcagtcgccc aggctgaagt gcagtgacac agtctcagct cactgcaacg tctgcctccc 240

agattgaagt gactctcgtg cctctgccac agagtggctg ggattacagg catgcaccac 300

cacacaccgc taatttttg tatttttggt ggagacggag tttcaccatg ttggccaggc 360

tgcgaactcc tgagctcaag tgatcctccc acctcagctt cccaaagtgc tagcattaca 420

ggcatgagcc accacacctc accagatttt taaaaaatat ataactgcat ctctcttgat 480

tctggggctt ggtaaaaatg gatagataag atagtattct aaattcaaat tcgtggctag 540

gcacagtggc ccacacctgt aatcccagca ctttgggatt ccaagacaga agactcactt 600

gagtacagta tgagaccagc ctgggcaaca tagatcttgc ctctacaaaa aaaaaaaaaa 660

atagccaggt gtggcacatg cctgtagtct cagctgcttg gaaggctgaa atgagaggat 720

ctcttgagcc caggaggtct aggccagagt gagctgtgat cgtgccattg gcactccaga 780

ctgagtgaca gagtgagact gtgtctaaaa aaaaagtttg aattaaaaaa aaaaaaaaaa 840

aatgtcgctt gtgcaggggg gctcatgcct gtggacccca gcacttccgg agggccaaca 900

gggggtggga taacctgttg aggctcaggg agtttggaaa ccagcctgtt gaccacacgt 960

gggctgaacg cctccgttcc ctaagtaaca actatcaaaa tattttaccc ctgtggacta 1020

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cagctggggc acacattgag cacaatctct ccatctctaa gataccccac agaccaaaac 1200

acaaactcca atttgcattg taagatcggg cacctaggat tcagttcctg aaacgtcttt 1260

gtcacaatta agggcaaata cttataacgc caaatgtacc tcggcgtctg cacactttta 1320

ccacttgtct ttggccaaag ggtatgcttt accaccgggg aggtcgtcag ccaccaatgt 1380

gctcttaact tagcaaccat gacctcgccg gtctagaaaa cgcattgttt cccacc 1436

<210> 131
<211> 178
<212> DNA
<213> Homo sapiens

<400> 131
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tcgagagaat aagtgttccc tggatagata gatattagtt atagatatta taagttataa 120

ttatagtata agttatatct tcagtcataa atactataag attcagctga gcaaggtg 178

<210> 132
<211> 775
<212> DNA
<213> Homo sapiens

<400> 132
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gcatgttcca ccacacctcg ctaattttaa acatttttg tcactatgtt cctcagcctg 120

gtctcaaact cttggcctca accagtcctc cctccttaac ctcccaaagt gttagaatta 180

tgggcatgag ccaccgtgcc tggcctacat ttgatatttg atactgtaaa aagctagcta 240

tcacaactgt ccatactagt tctcttcgag agaataagtg ttccctggat agatagatat 300

tagttataga tattataagt tataattata gtataagtta tatcttcagt cataaatact 360

ataagattca gctgagcaag gtggcatgca tctgtagtcc cagctagttg agatcaaggc 420

taaggcagga gtcttacttg gacttaggag tttgagtcta gcctcatagt gataccttgt 480

ctactgaaaa aaaaaaaaga ttgaaccatt gttccactgt ttatgatttt ttttgtgctt 540

aattcttatt tatgaatttt tgttctagtt ctgtttctag agagaataaa gcccaggtga 600

ataactttgt tttctttctg gttttagaat tattagtaac aaatccgtgt tcttaatggc 660

agtagcaaac ctgtcttctg tagaattttt aaagagatgt ttctgtcatt agtaatacag 720

aagaagcctt gatcattttc agaataaaga attttacgac agggagaggt ggctc 775

<210> 133
<211> 535
<212> DNA
<213> Homo sapiens

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<223> n=a, c, g or t

<220>
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<222> (190)..(219)
<223> n=a, c, g or t

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<223> n=a, c, g or t

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<222> (228)..(228)
<223> n=a, c, g or t

<400> 133
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ggagaacagg acaagaatac ctgacatgac accagctata ttatatatgt gtgtgtatgt 180

atatatnccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna tatntatntg actatctggt 240

tagccatata tgaaccaagg cctgagggaa gagctgatac taagaggagg tttttaaaga 300

tgatttagag aatgtttata gaacagtctg tatgagagat ttgaggtttt tgtttggttg 360

gttttgtctt tggcagtagc ctgaaaaaac acataaagag ttaagaatat gttttatagg 420

tttgggggaa gcatcctgta gagagagtga atttgaacag aaaaaagaga gagggaaagc 480

tggcaaaagc aagtctgact cctgatgcaa aatgcatgag aagactggat aaaat 535

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<211> 579
<212> DNA
<213> Homo sapiens

<220>
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<222> (184)..(184)
<223> n=a, c, g or t

<220>
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<222> (187)..(216)
<223> n=a, c, g or t

<220>
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<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (225)..(225)
<223> n=a, c, g or t

<400> 134
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gaacaggaca agaatacctg acatgacacc agctatatta tatatgtgtg tgtatgtata 180

tatnccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnatat ntatntgact atctggttag 240

ccatatatga accaaggcct gagggaagag ctgatactaa gaggaggttt ttaaagatga 300

tttagagaat gtttatagaa cagtctgtat gagagatttg aggtttttgt ttggttggtt 360

ttgtctttgg cagtagcctg aaaaaacaca taaagagtta agaatatgtt ttataggttt 420

gggggaagca tcctgtagag agagtgaatt tgaacagaaa aaagagagag ggaaagctgg 480

caaaagcaag tctgactcct gatgcaaaat gcatgagaag actggataaa atttccactt 540

gcatgtttat agcagcatta atcctaaaag ccagggcgg 579

<210> 135
<211> 503
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (421)..(421)
<223> n=a, c, g or t

<400> 135
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attaaagagg gagcttctta taaccataaa ttatacagct cagcatttcc catttttct 120

tttcttcctt gtgccaatgc ttgggaggaa accagagtat gaacaagaac tgttttacct 180

tctagtggag aaaggacaat ttgcagtgga aagaatgtgt gtgtcgtccg tttgatctgt 240

aaaatgtgaa ctgcttctgt agtcctgagg actgaggaaa agagatgttg agtaaaagtt 300

actgataatt ccagctattc aatcttatct cacttttcc tctcttttat ctctgcccaa 360

atacctctac ttatgcacct actttgaatt tgcaacagtg aaggctgggg gataggagac 420

ngccagtagt gctgagtagt gtcaagtaca gttaacagtg aaatgcggat tttcactcat 480

caaatcagca atcttaaatt ata 503

<210> 136
<211> 435
<212> DNA
<213> Homo sapiens

<400> 136
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atgatggggc agtggtttcc agacatggga gccagttcgt ctgtgaggat tttctccagg 120

catagtcaag tgtggaaaat gaggacaatg tggtgaactt ttcataaacc aatggattca 180

ggttgaagac ctggccattt ttttctgaga ttatatctct ccaatcttta tccttagcca 240

cagtgtcttc tttaatgaaa tggtgttgat tatggatgat agatttttt ttctgttggc 300

caaattagaa gttggaaacc ctaggttgtt attccttccc ttccccaaat ttcaaagctt 360

taccagtttg agaaatccca gaatctcagt cctcaagaaa ttgaaacctc taacaaggat 420

acgtggatgt gcaca 435

<210> 137
<211> 596
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (569)..(569)
<223> n=a, c, g or t

<400> 137
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catagtcaag tgtggaaaat gaggacaatg tggtgaactt ttcataaacc aatggattca 180

ggttgaagac ctggccattt ttttctgaga ttatatctct ccaatcttta tccttagcca 240

cagtgtcttc tttaatgaaa tggtgttgat tatggatgat agatttttt ttctgttggc 300

caaattagaa gttggaaacc ctaggttgtt attccttccc ttccccaaat ttcaaagctt 360

taccagtttg agaaatccca gaatctcagt cctcaagaaa ttgaaacctc taacaaggat 420

acgtggatgt gcacatacga tgctatgtct caaggatgac atttagtgcc ctccaagaag 480

tagaagtgat gccggggaac caccaaggaa gaaggaccag catctctctg gggagcctgc 540

agacggtctg tgcatgaaat gctttcaang gatggacatg ggactgaaag gagtta 596

<210> 138
<211> 467
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (56)..(187)
<223> n=a, c, g or t

<400> 138
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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnncta aggagtattc tagtgaagaa aatggttgaa ctttgtttaa actggtgtat 240

ggcaaacttc actgttgaaa tacttattcc catgacctat tatctttgta ggtgggtgaa 300

attgcattgg gaactgctgc tataaccaaa agagaatttc agtcaccatg tctggttgtt 360

agctatgatg gaatggcagc atcatggtct cagttatgag tgaaaatctt tgttgtagct 420

aagtagtggt gcctcctgag ttttattaaa tgccgtttca ctatctt 467

<210> 139
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5)..(5)
<223> n=a, c, g or t

<220>
<221> misc_feature
<222> (13)..(13)
<223> n=a, c, g or t

<400> 139
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ataagactct cgtagtatct ctaaaagatt cagtagttat ccactgggtt gatcttcatg 120

ctgtgt 126

<210> 140
<211> 535
<212> DNA
<213> Homo sapiens

<400> 140
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ggagcacctg aagacttgga ataggtagct tcaccaaaga ataggagaag agcggagaac 120

ccgggcccac aaggcatcct ttgaaggatg aagacaacta ggaaggctcg atttctgggt 180

accatgtgaa cagagaatag aggggagtca gggaatactc agctgtgtca aaagcagccc 240

ataaatgtca tcgaggataa gcactcgaag atcgttgtcg ggcttttata gccaacaatg 300

cagaaggtca ttgcctgctt ggctaagacc atttctgtga aaagaagagg attttaaact 360

ggaatgggat gagtagagca gccttttctg catttcttcc tttgctggct caagagaagc 420

agaaacaaac cctattccca gaactatgct gacaacattg atgatggcag cacacaaatt 480

aggaggtaaa caaaacgcca tgttaatttc aggctccatt agaaacacag tcagg 535

<210> 141
<211> 960
<212> DNA

<213> Homo sapiens

<400> 141
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gcgattacag gcgtgagcca ctggataagt cattttaaa aagaggttct tatgcttttc 180

aaatgtattt actgattgaa aaatgcttct ggagaagatg aatattggta atgaaataat 240

agaagctgac taatggacaa aacagtggga tcaaaagact aggaagactt aaagaccaaa 300

gcaaaaccca tctctgtttc taaaaattgt tgtgacattt caaaacactt tctcacagaa 360

gaaatactat ctccccatct cccaaactga gcttgatatg accatgaagc ataagcataa 420

cttagtgtga gaaagcgaag gcaaaataaa aaattcagga agaatcgagt gtcctctctt 480

tatagggagc acctgaagac ttggaatagg tagcttcacc aaagaatagg agaagagcgg 540

agaacccggg cccacaaggc atcctttgaa ggatgaagac aactaggaag gctcgatttc 600

tgggtaccat gtgaacagag aatagagggg agtcagggaa tactcagctg tgtcaaaagc 660

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caatgcagaa ggtcattgcc tgcttggcta agaccatttc tgtgaaaaga agaggatttt 780

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<210> 142
<211> 564
<212> DNA
<213> Homo sapiens

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<222> (554)..(554)
<223> n=a, c, g or t

<400> 142
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tctgtcaagc tagaagaaaa atgtcactaa aataattcaa gacaattttt gtactttcca 180

acgatgttca ggtaacagct gaaaatattc tcacttattt gacttgagga agaaaattcg 240

aacgaggaaa atcatcaagg atttgctaaa gtcccttctg taaaatcttc cttaaggaag 300

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gtcttacgag aganaaacaa gagc 564

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<211> 4906
<212> DNA
<213> Homo sapiens

<400> 143
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cacacattaa taatgggaga ctttaacacc ccactgtcaa cattagacag atcaacgaga 180

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gactactggg tacataacga aatgaaggca gaaataaaga tgttctttga aaccaacgag 540

aacaaagaca ccacatacca gaatctctgg gacgcattca aagcagtgtg tagagggaaa 600

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<211> 320
<212> DNA
<213> Homo sapiens

<400> 144
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aacctgtagt agtttgacta gtagtagctc tgacttgagc aattggtggt actgaaatgg 180

gaaagattgg aggaggatta aactttgtaa agatattgaa ccaggtttca gatatactgt 240

ctggagctta aaagtcttaa gtagtataat aaattacaca gggaaagaat ctagagtagg 300

agccaggtgc agtggcacat 320

<210> 145
<211> 458
<212> DNA
<213> Homo sapiens

<400> 145
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ctccaactcc tgtgctcaag ggatcctccc acctcagctt cccaagtaat agggaccata 120

ggcatgtgcc actgcacctg gctcctactc tagattcttt ccctgtgtaa tttattatac 180

tacttaagac ttttaagctc cagacagtat atctgaaacc tggttcaata tctttacaaa 240

gtttaatcct cctccaatct ttcccatttc agtaccacca attgctcaag tcagagctac 300

tactagtcaa actactacag gttactatga tagtacacat tcctgccacc tctctggaag 360

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<210> 146
<211> 115
<212> DNA
<213> Homo sapiens

<400> 146
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ttctcctccc catgtgatac cccatgttgc cttggaactc tacagaaagt ccctc 115

<210> 147
<211> 69
<212> DNA
<213> Homo sapiens

<400> 147
gttctatatg aaatagattt aatagatttg gatatttggg tgattttctc tttactatgt 60

tcattagtg 69

<210> 148

<211> 431
<212> DNA
<213> Homo sapiens

<400> 148
tagttctaat gaaatagaac tatgtcatta gttctatatg aaatagattt aatagatttg 60

gatatttggg tgatttttctc tttactatgt tcattagtga attacattaa ttgattttct 120

aatgttgaat ccaacgtgta tgtttttttt ttttgagacg gagtctctct gctgtcgccc 180

aggctggagt gcagtggtgc tatctcggct cactgcaacc tctgcactcc taggttcaag 240

tgattctcct gcctcagcac tcctgagtag ctgggattcc aggcacacac cgccacccct 300

ggctaatttt tgtatttttg gtagagacgg ggtttcacca cgttggtcag gctggtctcg 360

aactcctgac actcatgatc cgcccgcatc agcctcccaa agtgctggga ttacaggcat 420

gaccaccagc a 431

<210> 149
<211> 266
<212> DNA
<213> Homo sapiens

<400> 149
tattttattt tttattggtt actttaggat tctaatatgc ttacctcacc acaggttact 60

tttaaaggcc attacgccat ttaaaatacg gtataagaac ctaacaactg tatacttcca 120

ctttgtccat ctacttttttg taccatgatt gtcacacatt ttacctatgt tataaatcct 180

tgcttgatca ctattatttt tgtttagtca attattgtat aaagatattt aaacaataag 240

aaaaatacat atctacctgc atagtc 266

<210> 150
<211> 300
<212> DNA
<213> Homo sapiens

<400> 150
gctcgaggaa gcattatgat acatttattg tggaagagag gggtagttta aacttgtttc 60

atccactgat gttcttattg tagctatgat atttcttaat ctgataaaac aatacttata 120

ggcaaacgtt tctcacttat gtatagatga aagtatgatt tatataacct tgccatacaa 180

tagggaccca ttaattactg aagtaattaa tgtttttttga gatgtctata atatgttgca 240

gttggtgaag attttagaaa gttttatttc ggccgggtgt ggtcgttcat gcctgtaatc 300

<210> 151
<211> 579
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (530)..(530)
<223> n=a, c, g or t

<400> 151
tctgcgtcgc tcacgctggg agctgttcct gttcagccat cttagctcca cccaccccat 60

gagagaatat tcttaaaacc aaatacgtca tagaagcatt atgatacatt tattgtggaa 120

gagaggggta gtttaaactt gtttcatcca ctgatgttct tattgtagct atgatatttc 180

ttaatctgat aaaacaatac ttataggcaa acgtttctca cttatgtata gatgaaagta 240

tgatttatat aaccttgcca tacaataggg acccattaat tactgaagta attaatgttt 300

tttgagatgt ctataatatg ttgcagttgg tgaagatttt agaaagtttt atttcggccg 360

ggtgtggtcg ttcatgcctg taatccagca cttggggagg ctgaggcggg tggatcaccg 420

gaggtctgga gatcaagatc agccgggcca acatgggtgg aaaccccatc tggaactaaa 480

aatgacaaaa aaattagcgg ggggtggggg caggttgcct gtaatcccan gtacttcggg 540

aggctgaggc aggggaatgg ctggaacccg ggaggcagg 579

<210> 152
<211> 882
<212> DNA
<213> Homo sapiens

<400> 152
ccccattatc agttggttct cagactctac cctagtgtcc agaacagtga tcaacacaga 60

gcaagtattt aataagggtt tgttggcctg aagtgaacat cctctcaggg agggatagac 120

atcaagtgag aggatgccag gcaaagggcc acccctagta acagctgctt gcatgtgcag 180

agggagtgcc cgaggaggtg ggagctctcg ggggtcacta gggggcgctg tgactatgac 240

tggatgccgt gttcttcctg caaggatgtg aggactcagt ctcaggcagg tgacaggagt 300

ggagcaatga acgccaagac acagctcctg ctctcctggc gcttacactc tggcgtgcag 360

gctgcaggga tgcagatacg gtgacaaaac agtctggtcc ccaaacttct ccttatccct 420

gagaccgccc cagccatcct ctgctctgtg cccacccaca tgactcagaa ctttgatccc 480

tacctccatg tcctgaacag gcagtttcct ccacttcaga agtcccctcc gccctggaaa 540

gctcctactt taccccgtgt tccagctcac gaagctttct ctggctctcc agccaaagtt 600

cattgctgcc ctctccacgc actcctgctc tacacagctc cgctgcacgc ataagtccaa 660

gctagtgtgt gtctcccttt atccagacaa gactcctcag ggcgctgacc aggtcttagt 720

tatcctagcg tctcccaagc tgggccctgc ttgtgcgtac caggtatctg aaaaatggct 780

gctggaacaa aacagaggcc ggtcaagtgg aggagattaa ggttaataag tgacttcgtg 840

gagaaagtct aacatcaggt gagtggcctg cacggtggtt ca 882

<210> 153
<211> 2075
<212> DNA
<213> Homo sapiens

<400> 153
atggagaatc tcaaagcatt cattgtatta agtgaaagaa gccagacacc aaagactata 60

tataatttcc atttctatta catcctggga aagctaaatc tacaagaaca ggaaacatat 120

cagtggggcc caggggctgg aggaacatgg gtggagctag aggccattat ccttagcaag 180

ctgacacagg aacagaaaac caaactaagt gggagccaaa taagaagaat atatggacac 240

aaagagggga acaacagaca ctggggactg cctgaggatg gagggcagga ggagggagag 300

gatcagaaaa ataactatca gagttgtttg ggagaaccaa gaggtcgtgg ggagagctgg 360

caggaagtgg ctgggcagac cttagaatgt agtaatggga aagctatgct ggcaatttgc 420

agcattcagc cgaatctgga tctggacctc cccttctggg gtctccatgg ggatcaggaa 480

gtcaagaaca gtggttcttc ctcagtcctt ctggggctgg ggtcagcatc tgggcttgct 540

gtgttagata agcctgggca tggcagagat ggcgagatac ccaacaaaac atttgtgacc 600

tctcagcatt tccggagtga ggagttgtca cttggaggtc acggtgtaga acaacacccc 660

tccaccccat taactgttag gacatataaa acagaacaca gtgaagtgtc aatggttgaa 720

aaggacagta ccacattttc cctactagct ttccctgtca tctctaggag ggtccttcta 780

gggatttcca cttactggaa tcacttaggg atgcccgctg atgcagggac caccatctca 840

aacattgttg gttcccatcg agaagataag aatgagaaag gtgatctcca gttccatcct 900

ctggtcgtag aacccaaact aggagctgaa atggctctca cagattccca aggagcagat 960

gtccctcaga gagttggact ttcttataat aactgtatca ggcagggttc aagtgattct 1020

cctgcctcaa cctcccaagt agctgggatt ataggtgtgt gccaccacac ccggctaatt 1080

tttgtatttt tagtagagac ggggtttcac catgttggcc aggctggtct cgaactcctg 1140

acctcaagtg atccacccac ctcggcctcc caaactgctg gaattacagg tgtgagccac 1200

cgtgcagggc cactcacctg atgttagact ttctccacga agtcacttat taaccttaat 1260

ctcctccact tgaccggcct ctgttttgtt ccagcagcca tttttcagat acctggtacg 1320

cacaagcagg gcccagcttg ggagacgcta ggataactaa gacctggtca gcgccctgag 1380

gagtcttgtc tggataaagg gagacacaca ctagcttgga cttatgcgtg cagcggagct 1440

gtgtagagca ggagtgcgtg gagagggcag caatgaactt tggctggaga gccagagaaa 1500

gcttcgtgag ctggaacacg gggtaaagta ggagctttcc agggcggagg ggacttctga 1560

agtggaggaa actgcctgtt caggacatgg aggtagggat caaagttctg agtcatgtgg 1620

gtgggcacag agcagaggat ggctggggcg gtctcaggga taaggagaag tttggggacc 1680

agactgtttt gtcaccgtat ctgcatccct gcagcctgca cgccagagtg taagcgccag 1740

gagagcagga gctgtgtctt ggcgttcatt gctccactcc tgtcacctgc ctgagactga 1800

gtcctcacat ccttgcagga agaacacggc atccagtcat agtcacagcg ccccctagtg 1860

acccccgaga gctcccacct cctcgggcac tccctctgca catgcaagca gctgttacta 1920

ggggtggccc tttgcctggc atcctctcac ttgatgtcta tccctccctg agaggatgtt 1980

cacttcaggc caacaaaccc ttattaaata cttgctctgt gttgatcact gttctggaca 2040

ctagggtaga gtctgagaac caactgataa tgggg 2075

<210> 154
<211> 38
<212> PRT
<213> Homo sapiens

<400> 154

Met Tyr Trp Ile Asn Leu Ala Phe Ile His Gln Ile Val Ser Asn Ser
1 5 10 15

Ser Phe Pro Pro Ser Gln Thr Asn Glu Ala Lys Pro Asn Lys Cys Thr
20 25 30

Leu Leu Leu Arg Ser Lys
35

<210> 155
<211> 27
<212> PRT
<213> Homo sapiens

<400> 155

Met Gly Leu Ala Ala Thr Ala Thr Asn Ile Leu Ile Val Ser Asn Thr
1 5 10 15

Leu Leu Gly Ile Ile Arg Gln Lys Trp Arg Gly
20 25

<210> 156
<211> 42
<212> PRT
<213> Homo sapiens

<400> 156

```
Met Ala Cys Arg Gly Gly Thr Ile Asp Ile Thr Met Leu Lys Gly Trp
1               5                   10                  15

Pro Trp Leu Val Val Ser Lys Trp Arg Gly Glu Leu Val Leu Pro Trp
            20                  25                  30

Leu Leu Trp Val Ser Pro Tyr Thr Ser Phe
        35                  40
```

<210> 157
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (75)..(75)
<223> X=any amino acid

<400> 157

```
Met Arg Pro Thr Pro Cys Pro Met Trp Lys Ala Lys Ser Pro Pro Arg
1               5                   10                  15

Asp Trp Val Ser Ala Val Arg Glu Leu His Glu Leu Glu Gly Lys Gln
            20                  25                  30

Thr Glu Arg Ser Gly His Trp Ala Val Ser Arg Leu Pro Ala Pro Arg
        35                  40                  45

Thr Glu Gln Thr Val Thr Arg Thr Ala Asn Lys Ala Arg Arg Glu Ala
    50                  55                  60

Leu Lys Gly Gly Gln Ser Gly Arg Ala Leu Xaa Leu Thr
65                  70                  75
```

<210> 158
<211> 39
<212> PRT
<213> Homo sapiens

<400> 158

```
Thr Leu Cys Cys Pro Gly Ala Ser Ala Thr Val Arg Ser Arg Ile Thr
1               5                   10                  15

Ala Ala Ser Asn Ser Trp Leu Gln Ala Leu Leu Leu Pro Arg Pro Pro
            20                  25                  30

Glu Ala Leu Gly Leu Gln Ala
```

35

<210> 159
<211> 72
<212> PRT
<213> Homo sapiens

<400> 159

Met Ser Leu Arg Ala Val Val Glu Ala Ala Val Val Ala Val Val Gly
1 5 10 15

Ala Ala Val Val Ala Val Val Ala Ala Ala Val Val Ser Ala Ser Gly
20 25 30

Ala Ser Ser Ser Ala Gly Pro Val Ala Gly Tyr Val Ser Ala Gly Ala
35 40 45

Ala Val Val Gly Phe Ser Glu Cys Thr Lys His Pro Val Cys Phe Gln
50 55 60

Ser Phe Phe Ser Val Phe Ser Leu
65 70

<210> 160
<211> 75
<212> PRT
<213> Homo sapiens

<400> 160

Met Lys Phe Leu Ala Val Leu Val Leu Leu Gly Val Ser Ile Phe Leu
1 5 10 15

Val Ser Ala Gln Asn Pro Thr Thr Ala Ala Pro Ala Asp Thr Tyr Pro
20 25 30

Ala Thr Gly Pro Ala Asp Asp Glu Ala Pro Asp Ala Glu Thr Thr Ala
35 40 45

Ala Ala Thr Thr Ala Thr Thr Ala Ala Pro Thr Thr Ala Thr Thr Ala
50 55 60

Ala Ser Thr Thr Ala Arg Lys Thr Phe Gln Phe
65 70 75

<210> 161
<211> 27
<212> PRT
<213> Homo sapiens

<400> 161

Met Glu Arg Gln Ile Asn Ser Asn Asn Leu Gln Ser Asp Thr Ile Arg
1 5 10 15

Phe Ala Phe Trp Asp Gln Ala Trp Trp Leu Thr
20 25

<210> 162
<211> 103
<212> PRT
<213> Homo sapiens

<400> 162

Leu Ser Leu Phe Phe Cys Leu Phe Phe Leu Arg Arg Ser Leu Pro Leu
1 5 10 15

Leu Pro Arg Leu Glu Cys Ser Gly Ala Ile Ser Ala Pro Cys Asn Leu
20 25 30

Arg Leu Pro Gly Ser Asn Gly Ser Pro Ala Ser Ala Ser Ala Val Ala
35 40 45

Gly Ile Thr Gly Arg Asp Tyr Asn Ala Gln Leu Phe Phe Val Phe Leu
50 55 60

Val Glu Thr Gly Phe His Tyr Val Gly Gln Ala Gly Leu Lys Leu Leu
65 70 75 80

Thr Cys Asp Pro Pro Ala Ser Ala Ser Gln Cys Ala Gly Ile Thr Gly
85 90 95

Val Ser His His Ala Trp Pro
100

<210> 163
<211> 43
<212> PRT
<213> Homo sapiens

<400> 163

Met Ala Ser Phe Ser Asp Ser Phe Gly Asn Phe Phe Leu Ser Cys Met
1 5 10 15

Phe Leu Ser Ile Trp Ser Leu Asn Tyr Ile Cys Val Val Phe Phe Lys
20 25 30

Trp Ser Phe Ser Tyr Tyr Met Phe His Ser Lys
35 40

<210> 164
<211> 27
<212> PRT
<213> Homo sapiens

<400> 164

Met Asp Ile Lys Tyr Lys Thr Ser Phe Ser Tyr Ser Leu Met Phe Leu
1 5 10 15

Trp Leu Ser Phe Pro Leu Lys Gly Trp Phe Cys
20 25

<210> 165
<211> 85
<212> PRT
<213> Homo sapiens

<400> 165

Met Arg Pro Leu Cys Arg Thr Thr Lys Val Ile Leu Asn Leu Asn Leu
1 5 10 15

Gly Val Asn Val Gly Thr Glu Gly Phe Lys Phe Glu Val His Cys Asn
20 25 30

Ile Gln Gly Leu Pro Ala Tyr Ser Trp His Gly Trp Lys Asp Ala Thr
35 40 45

Ser Ile Phe Thr Thr Leu Ile Lys Ala Ser Met Ser Gly Glu His Lys
50 55 60

Met Gln Asn Asn Gly Cys Thr Thr Gly Asn Gly Gly Gln Cys Lys Gly
65 70 75 80

Thr Pro Ser Phe Glu
85

<210> 166
<211> 51
<212> PRT
<213> Homo sapiens

<400> 166

Met Ala Pro Ala Ser Arg Glu Gly His Ile Thr Arg Gln Asp Asp His
1 5 10 15

Ser Tyr Gln Ser Ala Trp Leu Trp Asp Pro Leu Met Met Arg Cys Asn
20 25 30

Pro Asp Leu Ile Ala Glu Ala Thr Gly Pro Lys Asp Cys Ser Phe Leu
35 40 45

Leu Gly Cys
50

<210> 167
<211> 144
<212> PRT
<213> Homo sapiens

<400> 167

Met Cys Gly Leu Ser Arg Gly Ile His Ser Leu Gly Arg Glu Thr Leu
1 5 10 15

Lys Ala Gly Leu Val Pro Thr Ala Gly Asp Glu Leu Val Glu Gly Leu
20 25 30

Glu Arg His Ser Ser Gly Cys Thr Gly Gly Cys Gly Ala His Arg Ile
35 40 45

Gln Gln Arg Arg Thr Gly Ala Ala Arg Glu Gly Phe Trp Glu Glu Leu
50 55 60

Glu Thr Gln Thr Gly Gln Arg Leu Ala Gly Met Trp Trp Gly Thr Gly
65 70 75 80

Gly Leu Ser Leu Val Glu Glu Thr Thr Thr Ala Lys Val Glu Asn Pro
85 90 95

Trp Arg Arg Ser Leu Thr Trp Pro Glu Gln Arg Glu Glu Glu Gly Gln
100 105 110

His Ser Glu Pro Gly Pro Gln Gly Thr Gly Ala Pro Trp Asn Leu Trp
115 120 125

Pro Lys Met Arg Asp Ala Thr Lys Gly Glu Phe Tyr Phe Asp Glu Glu
130 135 140

<210> 168
<211> 44
<212> PRT
<213> Homo sapiens

<220>

<221> MISC_FEATURE
<222> (21)..(36)
<223> X=any amino acid

<400> 168

```
Met Trp Ala Ala Ile Cys Ile Ile Phe Val Ile Gln Lys Arg Asp Ile
1               5                   10                  15

Lys Leu Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
            20                  25                  30

Xaa Xaa Xaa Xaa Ile His Leu Phe Arg Trp Glu Cys
        35                  40
```

<210> 169
<211> 52
<212> PRT
<213> Homo sapiens

<400> 169

```
Met Asn Leu Phe Leu Cys Lys Ser Val Lys Tyr Ser Leu Asn Thr Cys
1               5                   10                  15

Val Pro Gln Leu Gly Leu Glu Asn Ala Lys Thr Val Met Ser Ala Glu
            20                  25                  30

Phe Leu Cys Tyr Lys Val Ser Trp Val Arg His Pro Tyr Arg Ile Glu
        35                  40                  45

Thr Thr Arg Lys
    50
```

<210> 170
<211> 73
<212> PRT
<213> Homo sapiens

<400> 170

```
Met Cys Phe Ser Gln Ser Trp Gln Lys Gln Leu Thr Ile Leu Val Leu
1               5                   10                  15

Thr Val Asn Arg Val Pro Lys Arg Val Tyr Arg Thr Gly Thr His Phe
            20                  25                  30

Gly Asp Cys Cys Pro Lys Ala Leu Ser Phe Leu Phe Thr His Phe Gly
        35                  40                  45
```

Val Leu Leu Trp Phe Leu Phe Gln Lys Ile Phe Leu Ser Phe Ile Ile
50 55 60

Leu Phe Leu Ser Ser Val Met Ser Ser
65 70

<210> 171
<211> 58
<212> PRT
<213> Homo sapiens

<400> 171

Met Leu Arg Arg Tyr Met Pro Phe Ser Leu Ser Phe Ala His Lys Cys
1 5 10 15

Thr Val Glu Phe Gly His Ser Ile Lys Glu Arg Ile Tyr Gly Leu Ser
20 25 30

Pro Arg Ala Asn Lys Ile Leu Phe Ala Phe Gln Leu Pro Ile Ser Met
35 40 45

Ser Phe His Phe Leu His Met Leu Leu Pro
50 55

<210> 172
<211> 44
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (4)..(5)
<223> X=any amino acid

<400> 172

Met Xaa Ser Xaa Xaa Leu Asn Leu Gly Leu Ile Gly Ser Leu Thr Tyr
1 5 10 15

Arg Leu Ser Trp Lys Met Ser His Val Tyr Leu Gly Arg Met Cys Ile
20 25 30

Leu Leu Leu Leu Gly Thr Val Phe Cys Val Pro Trp
35 40

<210> 173
<211> 24
<212> PRT
<213> Homo sapiens

<400> 173

Met Asp Leu Glu Ile Leu Thr Phe Ile Lys Glu Asn Ser Ser Leu Val
1 5 10 15

Glu Thr Ser Leu Glu Arg Pro Lys
20

<210> 174
<211> 69
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (26)..(26)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (68)..(68)
<223> X=any amino acid

<400> 174

Met Pro Val Lys Leu Leu Ser Tyr Ser Leu Pro Val Gly Gly Ser Gln
1 5 10 15

Cys Glu Val Trp Ser Pro Gly Thr Arg Xaa Thr Trp Ala His Ser Leu
20 25 30

His Thr Gly Ala Gly Lys Gly Gln Arg Glu Leu Gln Thr Gly Lys Trp
35 40 45

Met Val Trp Gly Arg Ser Pro Ala Pro Val Thr Ser Cys Glu Ser Leu
50 55 60

Ser Gln Thr Xaa Gly
65

<210> 175
<211> 47
<212> PRT
<213> Homo sapiens

<400> 175

```
Met Leu Pro Asn Ile Asp Ile Asp Ser Leu Gly Glu Ile Leu Ser Lys
1               5                   10                  15

Tyr Lys Ile Leu His Val Gln Gln Leu Asn Val Ile Asn Glu Phe His
            20                  25                  30

Ile Tyr Leu His Asp Ile Phe Glu Ile Lys Leu Ile Ile Leu Leu
        35                  40                  45
```

<210> 176
<211> 66
<212> PRT
<213> Homo sapiens

<400> 176

```
Met Leu Thr Lys Ser Ser His Tyr Leu Phe His Gly Thr Val Glu Ile
1               5                   10                  15

Arg His Pro Lys Val Ser Lys Thr Phe Lys Gln Gln Arg Leu Pro Met
            20                  25                  30

Gln Gly Ile His Trp Gly Lys Gly Gly Ala Gln Val Leu Pro Leu Leu
        35                  40                  45

Cys Asn Met Lys Pro Val Thr Lys Thr Ala Gly Glu Ser Leu Tyr Phe
    50                  55                  60

Thr Leu
65
```

<210> 177
<211> 56
<212> PRT
<213> Homo sapiens

<400> 177

```
Phe Phe Phe Phe Leu Ala Arg Trp Gly Leu Ile Met Leu Pro Arg Leu
1               5                   10                  15

Val Ser Asn Ser Trp Ala Gln Ala Ile Leu Leu Pro Arg Pro Pro Lys
            20                  25                  30

Met Leu Gly Phe Glu Ala Ala Ala Thr Thr Pro Ser Asp Lys Ser Leu
        35                  40                  45

Phe Phe Lys Ile Ile His Tyr Pro
    50                  55
```

<210> 178
<211> 42
<212> PRT
<213> Homo sapiens

<400> 178

Met Ile Ser Gly Asn Glu Glu Leu Asp Phe Ser Leu Glu Phe Ala Ser
1 5 10 15

Thr Leu Leu Trp Gln Ile Ser Val Gly Ser Leu Ser Thr Leu Ser Ala
20 25 30

Arg Gly Asn Leu Phe Tyr Gln Thr Gly Cys
35 40

<210> 179
<211> 31
<212> PRT
<213> Homo sapiens

<400> 179

Met Tyr Gln Tyr Phe Ile Thr His Gly Val Leu Lys Ile Gln Phe Lys
1 5 10 15

Asn Thr Val Phe His Met Ser Tyr Lys Val Leu Glu Lys Lys Phe
20 25 30

<210> 180
<211> 38
<212> PRT
<213> Homo sapiens

<400> 180

Met Leu Val Met Thr Ile Phe Thr Asn Thr Thr Ser Tyr His Tyr Pro
1 5 10 15

Leu Lys Leu Thr Val Leu Glu Lys His Ser Asn Trp Asp Ser Ser Ile
20 25 30

Lys Gly Asn Leu Val Phe
35

<210> 181
<211> 20
<212> PRT
<213> Homo sapiens

<400> 181

```
Met Arg Pro Tyr Glu Arg Thr Pro Ser Asn Ser Pro Pro Gln Tyr Lys
1               5                   10                  15

Pro Leu Ile Leu
            20
```

<210> 182
<211> 68
<212> PRT
<213> Homo sapiens

<400> 182

```
Met Pro Lys Arg Leu Thr Gln Ile Lys Gly Pro Met Asn Asp Gly Cys
1               5                   10                  15

Tyr Cys Ser Tyr Cys Tyr Asp Phe Ala Thr Phe Leu Thr Tyr Pro Ser
            20                  25                  30

Leu Asn Ile Leu Cys Ser Met Ala Ile Pro Arg Asp Gly Ile Lys Thr
        35                  40                  45

Lys Glu Lys Leu Ser Phe Ser Thr Ser Asn Phe Ser Ser Ser Lys Ala
    50                  55                  60

Tyr Val Gly Pro
65
```

<210> 183
<211> 115
<212> PRT
<213> Homo sapiens

<400> 183

```
Ser Phe Phe Phe Phe Phe Phe Glu Thr Arg Ser Cys Phe Val Ala Arg
1               5                   10                  15

Ala Gly Glu Arg Trp Tyr Asp His Gly Ser Leu Ala Pro Leu Pro Pro
            20                  25                  30

Arg Leu Lys Gln Ser Ser His Leu Ser Leu Ala Gly Thr Trp Asp Tyr
        35                  40                  45

Arg Tyr Lys Cys His Cys Ala Gln Leu Ile Phe Val Phe Phe Cys Glu
    50                  55                  60

Thr Gly Phe His His Val Ala Gln Ala Gly Leu Lys Phe Leu Gly Ser
65                  70                  75                  80
```

Ser Asn Pro Pro Ala Ser Thr Ser Gln Ser Pro Gly Ile Thr Gly Met
85 90 95

Ser His His Thr Cys Ser Ser Phe Leu Leu Phe Ala Ile Gln His Leu
100 105 110

Leu Gln Tyr
115

<210> 184
<211> 53
<212> PRT
<213> Homo sapiens

<400> 184

Met Trp Met Cys Ile Leu Ser Gly Ser Met Ile Phe Pro Gly Pro Glu
1 5 10 15

Cys Asp Arg Ser Gly Pro Ala Ile Glu Leu Gln Ala His Arg Pro Ala
20 25 30

Ala Ala Leu Gly Cys Ile Ala Arg Leu Leu Ser Ser Cys Leu Val His
35 40 45

Met Met Pro Gly Leu
50

<210> 185
<211> 36
<212> PRT
<213> Homo sapiens

<400> 185

Met Lys Asn Lys Met Thr Leu Leu His Ile Lys Leu Leu Phe Ile Trp
1 5 10 15

Lys Asn Gln Cys Cys Phe Lys Val Ala Cys Ser Thr Ser Ser Leu Thr
20 25 30

Tyr Thr Lys Thr
35

<210> 186
<211> 23
<212> PRT
<213> Homo sapiens

<400> 186

Met Thr Thr Val Leu Ile Asn Val Gly Tyr Gln Lys Ile Pro Arg Ser
1 5 10 15

His Leu Trp Cys Thr Leu Asn
20

<210> 187
<211> 57
<212> PRT
<213> Homo sapiens

<400> 187

Met Gln Arg Asn Thr Pro Arg Thr Gly Glu Ser Glu Ser Met Ser Val
1 5 10 15

Thr Arg Ile Asn Ala Asp Glu Ala Glu Thr Arg Asn Ile Lys Phe Arg
20 25 30

Ile Ala Ser Ser Arg Arg Ile Lys Val Ile Phe Val Ile Lys Leu Lys
35 40 45

His Lys Gln Ile Glu His Cys Ile Val
50 55

<210> 188
<211> 23
<212> PRT
<213> Homo sapiens

<400> 188

Met Asn Cys Arg Arg Thr Arg Trp Arg Ser Val Val Tyr Ser Trp Asp
1 5 10 15

Leu Ser Leu Val Leu Ala Cys
20

<210> 189
<211> 40
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (9)..(10)
<223> X=any amino acid

<220>
<221> MISC_FEATURE

<222> (18)..(18)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (26)..(26)
<223> X=any amino acid

<400> 189

Met Met Thr Ala Phe Thr Ser Cys Xaa Xaa Thr Lys Tyr Lys Asn Gln
1 5 10 15

Lys Xaa Ile Asn Asn Gly Asp Phe Met Xaa His Lys Leu Ile Arg Tyr
20 25 30

Leu Met Leu Cys Leu Val Ala Val
35 40

<210> 190
<211> 70
<212> PRT
<213> Homo sapiens

<400> 190

Met Asn Asp Gln Thr Cys Gly Leu Pro Cys Ser Ala Val Ser Glu Arg
1 5 10 15

Leu Asp Pro Gln Pro Arg Thr Gly Pro Leu Ser Gly Met His Gln Arg
20 25 30

Arg Asn Trp Arg His Thr Gly Ala Gly Ala Ala Pro Gly Leu Arg Ala
35 40 45

Phe Pro Ala Leu Ser Val Tyr Pro Arg Met Glu Met Phe Thr Phe Leu
50 55 60

Phe Phe Thr Leu Asn Met
65 70

<210> 191
<211> 54
<212> PRT
<213> Homo sapiens

<400> 191

Met Leu Val Glu Cys Leu Val Asn Asn Glu Ser Tyr Ser Leu Trp Ser
1 5 10 15

```
Gln Gly Ser His Lys Pro Thr Gly Gln Ile Leu Cys Ile Leu Val Ser
            20                  25                  30

Tyr Met Thr Ser Lys Phe Met Asn Leu Leu Asn Ser Phe His Thr Thr
        35                  40                  45

Gln Asp Ala Ser Phe Trp
    50
```

<210> 192
<211> 78
<212> PRT
<213> Homo sapiens

<400> 192

```
Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Ser Leu Gln Pro Pro Pro
1               5                   10                  15

Ser Gly Phe Lys Gln Phe Ser Tyr Leu Ser Leu Pro Ser Ser Trp Asp
            20                  25                  30

Tyr Arg Arg Val Pro Pro Arg Pro Ala Asn Phe Ala Ile Phe Ser Arg
        35                  40                  45

Asp Arg Val Ser Pro His Trp Leu Gly Trp Ser Arg Thr Pro Gly Leu
    50                  55                  60

Val Phe His Leu Pro Gln Pro Pro Lys Met Leu Gly Leu Gln
65                  70                  75
```

<210> 193
<211> 125
<212> PRT
<213> Homo sapiens

<400> 193

```
Met Ser Asp Gly Arg Asp Leu Gly Arg Gln Pro Pro Leu Ile Leu His
1               5                   10                  15

His Gln Pro Gly Leu Gly Thr Trp Leu Leu Phe Leu Ser Ala Val Ser
            20                  25                  30

Gly Gly Pro Trp Pro Thr His Lys Pro Phe Cys Gln His Leu Ala Phe
        35                  40                  45

Gln Leu Thr Ser Thr Gln Gly Leu Cys Asp Phe Arg Arg Arg Gln Leu
    50                  55                  60
```

Gly Arg Val Arg Ala Val Pro Gly Arg Ala Gln Thr Ser Ala Gln Thr
65 70 75 80

Ser Tyr Pro Pro Pro Thr Pro Arg Pro Arg Gly Phe Gln Ser Asn Gln
85 90 95

His His Gln Ala Pro Gly His Trp Lys Lys Asn Leu Cys Lys Glu Ala
100 105 110

Arg Gly His Leu Arg Lys Ser Arg Ser Pro Lys Leu Met
115 120 125

<210> 194
<211> 123
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (6)..(35)
<223> X=any amino acid

<400> 194

Met Ala Glu His Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Ile Gln Ser Ile Phe Phe Asp His Met Arg Ile Lys Ile
35 40 45

Gly Asn Ser His Arg Asn Ile Ser Glu Ile Ser Leu Asn Ile His Lys
50 55 60

Leu Asn Ser Thr Phe Gln Asp Gln Lys Glu Ile Lys Arg Glu Ile Arg
65 70 75 80

Lys Tyr Ile Glu Gln Asn Gln Asn Glu Asn Val Arg Ile Cys Gly Val
85 90 95

Thr Pro Lys Asn Val Cys Arg Lys Lys Gln His Lys Met Pro Asn Leu
100 105 110

Lys Lys Lys Asn Leu Asn Ser Val Thr Trp Ser
115 120

<210> 195
<211> 33
<212> PRT
<213> Homo sapiens

<400> 195

Met Phe Val Leu Asn Thr Ile Leu Ile Asp Ile Tyr Cys Pro Leu His
1 5 10 15

Thr Cys Glu His Ile Phe Val Phe Glu Tyr Arg Tyr Leu Leu Asn Lys
20 25 30

Ile

<210> 196
<211> 26
<212> PRT
<213> Homo sapiens

<400> 196

Met His Phe Gln Arg Arg Lys Asn Glu Asn Leu Ser Phe Lys Met Tyr
1 5 10 15

Ser Val Met Leu Asn Val Tyr Gly Leu Lys
20 25

<210> 197
<211> 31
<212> PRT
<213> Homo sapiens

<400> 197

Met Thr Ser Gln Pro Ile Pro Arg Thr Pro Ser Asn Thr Leu Gln Phe
1 5 10 15

Ala Ile Cys Val Glu Val Arg Arg Leu Val Ile His Lys Ile Thr
20 25 30

<210> 198
<211> 22
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (17)..(17)
<223> X=any amino acid

<400> 198

Met Lys Leu Ile Ser Gln Lys Ile Ser Ile Lys His Leu Leu Tyr Gly
1 5 10 15

Xaa Asn Thr Ala Thr His
20

<210> 199
<211> 36
<212> PRT
<213> Homo sapiens

<400> 199

Met Arg Val Leu Pro Pro Val Phe Ser Ala Pro Lys Cys Ser Asn Glu
1 5 10 15

Lys Pro Met Lys Ser Lys Tyr Ile Ile Tyr Met Leu Lys Tyr Phe Val
20 25 30

Ile Ile Lys His
35

<210> 200
<211> 49
<212> PRT
<213> Homo sapiens

<400> 200

Met Leu Leu Tyr Cys Leu His Ile Lys Leu Trp Ala Tyr Phe Cys Val
1 5 10 15

Phe Glu Leu Gly Val His Pro Thr His His Val His Phe Gly Tyr Thr
20 25 30

Lys Val Phe Thr Leu Pro Ile Ser Arg Glu His Tyr Thr Cys Asn Arg
35 40 45

Leu

<210> 201
<211> 16
<212> PRT
<213> Homo sapiens

<400> 201

Met Cys Lys Cys Gly Lys Val Pro Leu Glu Asn Leu Ile Arg Val Val

1 5 10 15

<210> 202
<211> 222
<212> PRT
<213> Homo sapiens

<400> 202

Met Glu Val Thr Pro Gly Glu Lys Ile Leu Arg Asn Thr Lys Glu Gln
1 5 10 15

Arg Asp Leu His Asn Arg Leu Arg Glu Ile Asp Glu Lys Leu Lys Met
20 25 30

Met Lys Glu Asn Val Leu Glu Ser Thr Ser Arg Leu Ser Glu Glu Gln
35 40 45

Leu Lys Cys Leu Leu Asp Glu Cys Ile Leu Lys Gln Lys Ser Ile Ile
50 55 60

Lys Leu Ser Ser Glu Arg Lys Lys Glu Asp Ile Glu Asp Val Thr Pro
65 70 75 80

Val Phe Pro Gln Leu Ser Arg Ser Ile Ile Ser Lys Leu Leu Asn Glu
85 90 95

Ser Glu Thr Lys Val Gln Lys Thr Glu Val Glu Asp Ala Asp Met Leu
100 105 110

Glu Ser Glu Glu Cys Glu Ala Ser Lys Gly Tyr Tyr Leu Thr Lys Ala
115 120 125

Leu Thr Gly His Asn Met Ser Glu Ala Leu Val Thr Glu Ala Glu Asn
130 135 140

Met Lys Cys Leu Gln Phe Ser Lys Asp Val Ile Ile Ser Asp Thr Lys
145 150 155 160

Asp Tyr Phe Met Ser Lys Thr Leu Gly Ile Gly Arg Leu Lys Arg Pro
165 170 175

Ser Phe Leu Asp Asp Pro Leu Tyr Gly Ile Ser Val Ser Leu Ser Ser
180 185 190

Glu Asp Gln His Leu Lys Leu Ser Ser Pro Glu Asn Thr Ile Ala Asp
195 200 205

Glu Gln Glu Thr Lys Asp Ala Ala Glu Glu Cys Lys Glu Pro
210 215 220

<210> 203
<211> 55
<212> PRT
<213> Homo sapiens

<400> 203

Met Val Cys Asp Phe Arg Asp Gln Ile Ile Asn Gly Ile Val Ala Ser
1 5 10 15

Ala Leu Phe Ser Leu Leu Cys His Ser Leu Trp Gly Lys Ser Ala Asp
20 25 30

Thr Arg Glu Asp Ala Gln Val Ala Leu Trp Arg Gly Pro Arg Gly Asp
35 40 45

Gly Leu Arg Leu Ser Pro Ala
50 55

<210> 204
<211> 62
<212> PRT
<213> Homo sapiens

<400> 204

Met Leu Pro Gly Ser Pro Ala Gly Glu Ala Val Ala Gly Trp Gly Val
1 5 10 15

Ala Pro Cys Gln Leu Pro Trp Ala Trp Asp Cys Arg Gln Pro Pro Pro
20 25 30

Gly Gly Gly Trp Arg Glu Ala Arg Val Arg Arg Val Arg Lys Ala Ser
35 40 45

Pro Ala Leu Gly Ser Gly Lys Gly Pro Glu Glu Pro Gly Arg
50 55 60

<210> 205
<211> 330
<212> PRT
<213> Homo sapiens

<400> 205

Asn Cys His Arg Met Lys Pro Ala Leu Phe Ser Val Leu Cys Glu Ile
1 5 10 15

```
Lys Glu Lys Thr Val Val Ser Ile Arg Gly Ile Gln Asp Glu Asp Pro
            20                  25                  30

Pro Asp Ala Gln Leu Leu Arg Leu Asp Asn Met Leu Leu Ala Glu Gly
        35                  40                  45

Val Cys Arg Pro Glu Lys Arg Gly Arg Gly Gly Ala Val Ala Arg Ala
    50                  55                  60

Gly Thr Ala Thr Pro Gly Gly Cys Pro Asn Asp Asn Ser Ile Glu His
65                  70                  75                  80

Ser Asp Tyr Arg Ala Lys Leu Ser Gln Ile Arg Gln Ile Tyr His Ser
                85                  90                  95

Glu Leu Glu Lys Tyr Glu Gln Ala Cys Arg Glu Phe Thr Thr His Val
            100                 105                 110

Thr Asn Leu Leu Gln Glu Gln Ser Arg Met Arg Pro Val Ser Pro Lys
        115                 120                 125

Glu Ile Glu Arg Met Val Gly Ala Ile His Gly Lys Phe Ser Ala Ile
    130                 135                 140

Gln Met Gln Leu Lys Gln Ser Thr Cys Glu Ala Val Met Thr Leu Arg
145                 150                 155                 160

Ser Arg Leu Leu Asp Ala Arg Arg Lys Arg Arg Asn Phe Ser Lys Gln
                165                 170                 175

Ala Thr Glu Val Leu Asn Glu Tyr Phe Tyr Ser His Leu Asn Asn Pro
            180                 185                 190

Tyr Pro Ser Glu Glu Ala Lys Glu Glu Leu Ala Arg Lys Gly Gly Leu
        195                 200                 205

Thr Ile Ser Gln Val Ser Asn Trp Phe Gly Asn Lys Arg Ile Arg Tyr
    210                 215                 220

Lys Lys Asn Met Gly Lys Phe Gln Glu Glu Ala Thr Ile Tyr Thr Gly
225                 230                 235                 240

Lys Thr Ala Val Asp Thr Thr Glu Val Gly Val Pro Gly Asn His Ala
                245                 250                 255
```

```
Ser Cys Leu Ser Thr Pro Ser Ser Gly Ser Ser Gly Pro Phe Pro Leu
            260                 265                 270

Pro Ser Ala Gly Asp Ala Phe Leu Thr Leu Arg Thr Leu Ala Ser Leu
        275                 280                 285

Gln Pro Pro Pro Gly Gly Gly Cys Leu Gln Ser Gln Ala Gln Gly Ser
    290                 295                 300

Trp Gln Gly Ala Thr Pro Gln Pro Ala Thr Ala Ser Pro Ala Gly Asp
305                 310                 315                 320

Pro Gly Ser Ile Asn Ser Ser Thr Ser Asn
                325                 330


<210>  206
<211>  72
<212>  PRT
<213>  Homo sapiens

<220>
<221>  MISC_FEATURE
<222>  (3)..(5)
<223>  X=any amino acid


<220>
<221>  MISC_FEATURE
<222>  (12)..(12)
<223>  X=any amino acid


<220>
<221>  MISC_FEATURE
<222>  (17)..(17)
<223>  X=any amino acid


<220>
<221>  MISC_FEATURE
<222>  (28)..(28)
<223>  X=any amino acid


<400>  206

Met Asn Xaa Xaa Xaa Thr Ala Met Leu Ile Ser Xaa Glu Gly Lys Asn
1               5                   10                  15

Xaa Gln Gly Asn Cys Lys Lys His Asn Tyr Arg Xaa Tyr Thr Ile Met
            20                  25                  30

Met Ile Thr Ile His Ala Leu Gln Asn His Arg Tyr Ile Tyr Ile Leu
        35                  40                  45
```

Leu Lys Ile His Gln Leu His Trp Ser Ser Thr Tyr Tyr Val Glu Arg
50 55 60

Lys Tyr Leu Arg Lys Phe Lys Leu
65 70

<210> 207
<211> 62
<212> PRT
<213> Homo sapiens

<400> 207

Met Tyr Ala Leu Ser Val Arg Ala Leu Ser Met Val Thr Ala Leu His
1 5 10 15

Asp Val Ser Gly His Tyr Ser Asp Gln Lys Lys Gly Gln Tyr Val Leu
20 25 30

Lys Gly Cys Glu Glu Val Ser Val Ser Trp Cys Thr Trp Thr Arg Glu
35 40 45

Pro Leu Ile Pro Phe Val Ala Ser Arg His Leu Val Thr Thr
50 55 60

<210> 208
<211> 34
<212> PRT
<213> Homo sapiens

<400> 208

Met Thr Gly Phe Leu Leu Cys Ser Ser Gln Leu Asn Phe Phe Phe Lys
1 5 10 15

Ile Leu Phe Cys Lys Ser Phe Leu Arg Ser Pro Cys Lys Pro Phe Ala
20 25 30

Gln Ser

<210> 209
<211> 93
<212> PRT
<213> Homo sapiens

<400> 209

Met Pro His Glu Gly Gly Asp Leu Arg Leu Ser Leu Gly Arg Glu Ala
1 5 10 15

```
Lys Lys Arg Cys Gln Ala Ala His Gly Gln Arg Cys Ser Cys His Thr
            20                  25                  30

Glu Phe Ser Val Leu Gly Ile Phe Val Thr Lys Ile Ala Glu Asp Ser
        35                  40                  45

Gly Ser Tyr Val Ala Cys Thr Arg Gly Ala Pro Ala Pro Thr Val Pro
    50                  55                  60

Ala Gly Pro Leu Lys Ser Ala Ser Leu Leu Ala Glu Pro Ser Val Ala
65                  70                  75                  80

Pro Trp Trp Pro Arg Arg Ser Pro Asp Leu Ala Glu Ser
                85                  90
```

<210> 210
<211> 41
<212> PRT
<213> Homo sapiens

<400> 210

```
Phe Phe Ala Asp Thr Arg Ser His Ser Val Ala Ala Ala Gly Val Gln
1               5                   10                  15

Trp His Asp Tyr Ser Ser Leu Ala Pro Gln Thr Pro Gly Leu Lys Gln
            20                  25                  30

Ser Ser Cys Leu Ser Pro Leu Ser Ser
        35                  40
```

<210> 211
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (63)..(81)
<223> X=any amino acid

<400> 211

```
Met Gln Pro Gly His Phe Arg Gly Gly Ser Val Cys Ala Ala Glu Glu
1               5                   10                  15

Ser Arg Asp Lys Trp Glu Arg Gly Ser Gln Ala Lys Gly Pro Ala Cys
            20                  25                  30
```

Ala Lys Ala Gln Arg Leu Gln Ser Ala Cys Ala Ile Ser Pro Gly Gln
35 40 45

Glu Thr His Leu Pro Glu Arg Arg Pro Glu Ala Val Thr Ala Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
65 70 75 80

Xaa Arg Phe Leu Asn Pro Ala Met Ser Gly Glu Phe Gln Ile Ala Lys
85 90 95

Ser Cys Cys

<210> 212
<211> 50
<212> PRT
<213> Homo sapiens

<400> 212

Met Ala Ala Thr Cys His Thr Val Ser Pro His Glu Gly Gly Gly Val
1 5 10 15

Leu Ser Ala Val Ile Ile Tyr Thr Trp Leu Glu Asp Leu Gln Asp Arg
20 25 30

Asn Phe Leu Lys Ile Pro Leu His Ser Asp Tyr Glu Ser Lys Ile Tyr
35 40 45

Ser Leu
50

<210> 213
<211> 73
<212> PRT
<213> Homo sapiens

<400> 213

Met Arg His Pro Leu Ile Val Trp Pro Gly Leu Val Ser Gly Ser Ala
1 5 10 15

Arg Arg Val Leu Leu Gly Trp Ala Val Phe Leu Pro Ser Gly Ser Asp
20 25 30

Gly Gly Ser Glu Pro Trp Pro Pro Leu Gly Gly His Ala Val Gln Pro
35 40 45

Gly Gln Leu Pro Gly Val Cys Pro Gly His Cys Tyr Gly Leu Arg Arg
50 55 60

Val Thr Gly Arg Tyr Gln Ile Ser Pro
65 70

<210> 214
<211> 143
<212> PRT
<213> Homo sapiens

<400> 214

Arg Pro Gln Glu Arg Leu Glu Asp Val Glu Gln Lys Trp Ile Leu Pro
1 5 10 15

Cys Asp Arg Gln Leu Arg Lys Gln Ser Val Ile Thr Lys Ser Phe Ser
20 25 30

Phe Leu Phe Phe Phe Phe Phe Phe Phe Phe Phe Leu Arg Gln Ser Leu
35 40 45

Ala Leu Ser Ala Arg Leu Glu Cys Ser Gly Met Ile Leu Ala His Cys
50 55 60

Asn Leu Cys Leu Thr Gly Ser Ser Asn Ser Pro Ala Ser Ala Ser Arg
65 70 75 80

Val Ala Gly Ile Thr Gly Met Cys His His Ala Ala Pro Ile Phe Val
85 90 95

Phe Leu Val Glu Thr Gly Phe His His Val Gly Gln Ala Gly Leu Glu
100 105 110

Leu Leu Thr Ser Gly Asn Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly
115 120 125

Ile Thr Gly Val Ser His His Thr Arg Pro Thr Lys Ser Phe Phe
130 135 140

<210> 215
<211> 65
<212> PRT
<213> Homo sapiens

<400> 215

Met Thr Thr Lys Ile Met Leu Gln Arg Asp Asn Ile Leu Ile Lys Phe

1 5 10 15

Cys Val Leu Leu Gln Tyr Leu Val Phe Lys Ile Ser Glu Leu Ser Leu
20 25 30

Gln His Phe Thr Asn Asn Lys Trp Leu Met Leu Glu Asn Asn Arg Asn
35 40 45

Asp Leu Phe Arg Pro His Val Asn Pro Cys Val Lys Asp Lys Gln Val
50 55 60

Phe
65

<210> 216
<211> 41
<212> PRT
<213> Homo sapiens

<400> 216

Met Lys Glu Gly Ser Leu Gly Arg Leu Val Tyr Lys Leu Gln Lys Leu
1 5 10 15

His Gln Pro His Pro Ser Ser Ser Pro Cys Ser Ser Asn Asn Ile Thr
20 25 30

Gly Phe Leu Cys Val Lys Thr Phe Phe
35 40

<210> 217
<211> 26
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (11)..(12)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (14)..(16)
<223> X=any amino acid

<400> 217

Met Pro Lys Arg Xaa Gln Ala Tyr Thr His Xaa Xaa Ala Xaa Xaa Xaa
1 5 10 15

Ser Phe Asn Ser His His Gln Phe Val Arg
20 25

<210> 218
<211> 38
<212> PRT
<213> Homo sapiens

<400> 218

Met Phe Val Ile His Val Tyr Val Lys Leu Lys Lys Tyr Thr His Pro
1 5 10 15

Asn Leu Leu Gly Ile Pro Ser Leu Lys Ile Asn Leu Ile Tyr Ile His
20 25 30

Arg Asn Ile Asn Thr Gly
35

<210> 219
<211> 26
<212> PRT
<213> Homo sapiens

<400> 219

Met Val Cys Ser Ile Leu Arg Ala Thr Ser Phe Ala Met Ser Asn Thr
1 5 10 15

Phe Glu Ile His Pro Tyr Phe Ser Val Tyr
20 25

<210> 220
<211> 107
<212> PRT
<213> Homo sapiens

<400> 220

Phe Phe Phe Phe Leu Gly Arg Ser Phe Val Leu Leu Pro Arg Leu Glu
1 5 10 15

Cys Asn Gly Ala Val Trp Ala His Cys Asn Leu Cys Leu Pro Gly Ser
20 25 30

Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Thr Gly Ala
35 40 45

```
His His Gln Val Trp Leu Ile Phe Val Phe Leu Val Glu Met Gly Leu
    50                  55                  60

Thr His Val Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Ser Asn Pro
65                  70                  75                  80

Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser His His
                85                  90                  95

Ala Gln Pro Glu Cys Thr Phe Ile Ala Ala Val
            100                 105
```

<210> 221
<211> 75
<212> PRT
<213> Homo sapiens

<400> 221

```
Met Ser Phe Val Leu Phe Val His Leu Phe Leu Ser Val Ala His Ser
1               5                   10                  15

Pro Arg Phe Leu Cys Leu Thr Phe Ile His Ser Ala Gly Leu Leu His
            20                  25                  30

His Ser Pro Asn Pro Leu Asp Ala Cys Val Gly Pro Gly Val Asn Ser
        35                  40                  45

Leu Ser Pro Met Val Pro Arg Glu Gly Leu Gly Ser Ser Ala Trp Ser
    50                  55                  60

Gln Ser Leu Pro Thr Arg Tyr Cys Leu Lys Lys
65                  70                  75
```

<210> 222
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (25)..(25)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (28)..(50)
<223> X=any amino acid

<400> 222

Met Tyr Tyr Thr Leu Asp Ile Glu Leu Asp Val Phe Pro Ile Ser Glu
1 5 10 15

His Leu Thr Tyr Thr Lys Ile Leu Xaa His Gly Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Asn Val Lys
50

<210> 223
<211> 56
<212> PRT
<213> Homo sapiens

<400> 223

Met Gly Gly Gly Ala Ser Gln Arg Arg Trp Gln Glu Thr Arg Ala Cys
1 5 10 15

Gln Gly Cys Thr Leu Cys Phe Tyr Leu Arg Ala Ser Leu Asp Gly Lys
20 25 30

Thr Asp Gly Asp Cys Gly Leu Asn Ala Ser Asn Pro Leu Leu Lys Met
35 40 45

Thr Thr Gly Cys Ser Thr Ser Thr
50 55

<210> 224
<211> 28
<212> PRT
<213> Homo sapiens

<400> 224

Met Lys Arg Ile Asn Phe Val Gly Lys Ser Lys Trp Leu Leu Lys Ile
1 5 10 15

Gln Ile Lys Pro Val Lys Ile Lys Tyr Arg Gln Asn
20 25

<210> 225
<211> 42
<212> PRT
<213> Homo sapiens

<400> 225

Met Asn Ile Leu Gly Val Gly Ser Glu Cys Ile Arg Arg Phe Asn Lys
1 5 10 15

Ala Val Trp Gly Ile Asn Ile Lys Ser Lys Gly Phe Ile Leu Ile Leu
20 25 30

Arg Ser Val Lys Tyr Thr Pro Thr Leu Arg
35 40

<210> 226
<211> 59
<212> PRT
<213> Homo sapiens

<400> 226

Met Thr Trp Ser Gln Met Lys Gly His Phe Asp Pro Phe Phe Asp Phe
1 5 10 15

Asn Pro Lys Leu Ser Ala Asn Met Phe Tyr Phe Leu Ala Lys Val Ile
20 25 30

Leu Asp Ala Thr Trp His Tyr Ile Lys Asn Phe Asn Val Leu Glu Ser
35 40 45

Tyr Val Leu Asp Ser Lys Glu Leu Leu Trp Gly
50 55

<210> 227
<211> 43
<212> PRT
<213> Homo sapiens

<400> 227

Met Glu Ser Lys Asn Phe Pro Pro Pro Thr Pro Thr Val Phe Gln Cys
1 5 10 15

His Asn Tyr Lys Val Ser Leu Lys Tyr Tyr Leu Ile His Ser Asn Lys
20 25 30

Ser Lys Gly Phe Val Ser Ser Trp Phe Tyr Cys
35 40

<210> 228
<211> 127
<212> PRT
<213> Homo sapiens

<400> 228

Gly Leu Gln Ala Ala Ala Thr Thr Leu Ser Gln Lys Ile Val Phe Lys
1 5 10 15

Gly Ser Phe Arg Leu Tyr Pro Glu Lys Val Ser Tyr Ala Ile Phe Phe
20 25 30

Ser Arg Gln Ser Leu Ala Leu Leu Pro Arg Leu Glu Cys Ser Gly Ala
35 40 45

Ile Ser Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro
50 55 60

Ala Ser Ala Ser Ala Val Ala Gly Thr Val Gly Met Tyr His His Ala
65 70 75 80

Gln Leu Ile Phe Ile Phe Leu Val Glu Met Gly Phe Cys His Ile Gly
85 90 95

Gln Ala Gly Leu Lys Leu Leu Asn Ser Ser Asp Thr Pro Thr Leu Ala
100 105 110

Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Gly Pro
115 120 125

<210> 229
<211> 47
<212> PRT
<213> Homo sapiens

<400> 229

Met Tyr His Leu Asp Asn His Leu Thr Leu Phe His Thr Ala Gln Leu
1 5 10 15

Tyr Ser Arg Asn His Leu Gln Leu Leu Lys Lys Val Ser Glu Ile Gln
20 25 30

Ser Tyr Phe Tyr Ser Gly Lys Glu Val Pro Ser Ile Val Thr Ser
35 40 45

<210> 230
<211> 25
<212> PRT
<213> Homo sapiens

<400> 230

```
Met Arg Leu Trp Cys Val Ser Glu Ser Leu Arg Glu Ala Val Phe Ser
1               5                   10                  15

Lys Gln Val Gly Leu Cys Trp Thr Asp
            20                  25
```

<210> 231
<211> 48
<212> PRT
<213> Homo sapiens

<400> 231

```
Met Ile Cys Leu Glu Val Asn Leu Asn Pro Leu Tyr Pro Phe Asn Leu
1               5                   10                  15

Glu Ile Ala Ser Phe Arg Ser Trp Lys Val Pro Phe Pro Leu Ser Leu
            20                  25                  30

Ser Phe Leu Ser Gly Thr Leu Ile Val Lys Asn Trp Thr Ser Leu Ile
        35                  40                  45
```

<210> 232
<211> 92
<212> PRT
<213> Homo sapiens

<400> 232

```
Met Thr Pro Gly Ala Gln Ser His Val Leu Ile Gln Asn His Trp Phe
1               5                   10                  15

Lys Cys Pro Cys Gly Arg Cys Lys Phe Pro Gly Asn Leu Leu Arg Gln
            20                  25                  30

Asn Gly Leu Trp Gln Leu Lys Ser Ser Pro Leu Thr Asp Thr Gly Ile
        35                  40                  45

Gly Cys Gly Gly Glu Ser Thr Pro Gly Ala Met Cys Val Lys Arg Leu
    50                  55                  60

Met Asn Ser Ser Ser Tyr Gly Trp Ser Ala Asp Ile Met Cys Tyr Leu
65                  70                  75                  80

Tyr Ile Asp Leu Leu Asn Phe Ser Phe Ser Ala Met
                85                  90
```

<210> 233
<211> 35
<212> PRT

<213> Homo sapiens

<400> 233

Met Asn Lys Cys Lys Tyr Ser Phe Asn Tyr Asn Tyr Ser His Ala Ser
1 5 10 15

Leu Ile Ile Leu Ile Phe Val Gly Arg Lys Gln Val Ser Asn Val Phe
20 25 30

Leu Ile Lys
35

<210> 234
<211> 33
<212> PRT
<213> Homo sapiens

<400> 234

Met Gly Ser Ile His Thr Phe Tyr Asn Pro Glu Ile Gln Ala Ile Leu
1 5 10 15

Val Thr Thr Asn Ala Leu Phe Trp Arg Ile Val Val Arg Trp Lys Lys
20 25 30

Asn

<210> 235
<211> 105
<212> PRT
<213> Homo sapiens

<400> 235

Asn Ala Gln Phe Phe Phe Cys Tyr Val Val Phe Glu Thr Gly Ser Arg
1 5 10 15

Ser Ala Ala Gln Ala Gly Val Gln Trp Gln Asp His Gly Leu Leu Gln
20 25 30

Pro Ala Pro Pro Gly Leu Lys Gln Phe Ser Leu Leu Ser Leu Gln Ser
35 40 45

Ser Trp Asp Tyr Arg Gln Val Pro Pro Arg Leu Thr Asn Phe Ala Ile
50 55 60

Phe Cys Arg Asp Gly Val Ser His Leu Ala Gln Ala Gly Leu Glu Leu
65 70 75 80

Leu Gly Ser Ser Lys Pro Pro Thr Ser Ala Ser Gln Ser Pro Arg Ile
85 90 95

Thr Gly Val Ser His Cys Pro Gln Pro
100 105

<210> 236
<211> 43
<212> PRT
<213> Homo sapiens

<400> 236

Met Phe Ile Glu Leu Leu Gln Gly Thr Trp Val Leu Lys Thr Arg Gln
1 5 10 15

Ile Cys Phe Tyr Asn His Ile Ser His Phe Gln Ser Leu Ser Lys Glu
20 25 30

Phe Val Val Gln Leu Leu Ala Ile Phe Tyr Cys
35 40

<210> 237
<211> 27
<212> PRT
<213> Homo sapiens

<400> 237

Met Thr Gly Val Phe Ser Glu Ile Ser Glu Arg Pro His Asn Leu Arg
1 5 10 15

Leu Asn Lys Glu Gly Ile Arg Ile Gly Asn Thr
20 25

<210> 238
<211> 98
<212> PRT
<213> Homo sapiens

<400> 238

Met Leu Ser Leu Asn Thr His Ala Val Gln Pro Gly Gly Pro Phe Ile
1 5 10 15

Phe Pro Leu Leu Asn Ser Ser Pro Ser Gln Val Leu Ser Ala Pro Leu
20 25 30

Phe Leu Cys Ile Pro Thr Thr Ser Gly Cys Asn Phe Thr Gly Trp Phe
35 40 45

Lys His Ser Leu Ser Cys Val Thr Tyr Pro Cys Thr Cys Pro Ser Leu
50 55 60

Leu Thr Ile Asn Ser Leu Trp Ala Asp Thr Val Ser Pro Thr Leu Gly
65 70 75 80

Pro His Arg Ala Pro Ala Gln Thr Leu Pro Ser Val Leu Leu Leu Thr
85 90 95

Ala Thr

<210> 239
<211> 59
<212> PRT
<213> Homo sapiens

<400> 239

Arg Lys Lys Ile Leu Lys Phe Leu Glu Thr Asn Glu Asn Gly Asn Thr
1 5 10 15

Thr Tyr Ala Asn Leu Gln Asp Thr Ala Lys Thr Val Leu Ala Arg Lys
20 25 30

Phe Ile Ala Lys Ser Ala Tyr Ile Lys Lys Val Glu Lys Leu Gln Ile
35 40 45

Asn Asn Leu Lys Met Asn Leu Lys Glu Leu Glu
50 55

<210> 240
<211> 53
<212> PRT
<213> Homo sapiens

<400> 240

Met Leu Arg Lys His Phe Asp Trp Arg Gln Arg Thr Lys Ser Tyr Ser
1 5 10 15

Ile Asn Ser Thr Ser Ser Val Leu Arg Ser Gln Lys Asp His Asp Leu
20 25 30

Val Tyr Ile His Ile Phe Leu Ile Lys Glu Glu Gly Tyr Tyr Ser Arg
35 40 45

Asn Leu Tyr Lys Ile
50

<210> 241
<211> 44
<212> PRT
<213> Homo sapiens

<400> 241

Met Gly Arg Lys Leu His Arg Thr Ser Leu Asn Gln Arg Met Glu Lys
1 5 10 15

Asp Thr Leu Arg Ile Gly Lys Val Glu Lys Ser Gln Arg Gly Met Leu
20 25 30

His Tyr Glu Ala Phe Gly Gln Trp Ala Thr Gln Gly
35 40

<210> 242
<211> 89
<212> PRT
<213> Homo sapiens

<400> 242

Met Leu Val Arg Ile Leu Ala Phe Thr Leu Pro Gln Val Thr Glu Gly
1 5 10 15

Arg Gly Asn Ser Gly Met Ile Thr Glu Glu Gln Leu Lys Arg Ser Lys
20 25 30

Pro Gln Arg Lys Cys Phe Leu Ala Ser Ile Ser Leu Tyr Val Lys Arg
35 40 45

Val Asn Ile Arg Ser His Asn Ile Glu His Leu Leu Pro Gly Ala Met
50 55 60

Leu Asn Ala Leu His Ala Leu Asn His Ser Phe Asn Lys His Leu Leu
65 70 75 80

Ser Thr Cys Tyr Val Gln Val Leu Phe
85

<210> 243
<211> 33
<212> PRT
<213> Homo sapiens

<400> 243

Met Cys Ser Leu Leu His Lys Ala Ser Gln Gln Ser Tyr Asn Val Gly
1 5 10 15

```
Ile Ile Thr Ala Ile Leu Tyr Leu Arg Thr Arg Arg Pro Arg Glu Val
            20                  25                  30

Lys
```

<210> 244
<211> 38
<212> PRT
<213> Homo sapiens

<400> 244

```
Met Ser Phe Val Arg Thr Thr Leu Thr Leu Gly His Gly Tyr Pro Pro
1               5                   10                  15

Thr His Pro Ala Pro Thr Ala Phe Ile His Ser Leu Ser Gln Ala Glu
            20                  25                  30

Lys Glu Arg Lys Val Phe
        35
```

<210> 245
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X=any amino acid

<400> 245

```
Met Leu Lys Xaa Leu Ile Phe Phe Val Val Glu Ile Gln Thr Val Ile
1               5                   10                  15

Leu Asn Ser Tyr Gln Lys Ser Leu Asn Ser Val Leu Thr Thr Val Asn
            20                  25                  30

Gly Arg Thr Tyr Ser Pro Leu Ser Phe Cys
        35                  40
```

<210> 246
<211> 48
<212> PRT
<213> Homo sapiens

<400> 246

```
Met Cys Met Glu Asn Asn Glu Tyr Phe Ile Tyr His Tyr Phe Leu Ile
1               5                  10                  15

Tyr Ile His Thr His Lys Phe Ile Ile Leu Ser Leu Met Arg His Gln
            20                  25                  30

Phe Tyr Ile Gln Leu Asn Ser His Cys Asn Cys Val Pro Ser Gln Leu
        35                  40                  45
```

<210> 247
<211> 35
<212> PRT
<213> Homo sapiens

<400> 247

```
Met Cys Leu Ala Thr Asn Leu Asn Leu Glu Tyr Tyr Leu Ile Tyr Pro
1               5                  10                  15

Phe Leu Pro Ser Pro Arg Ile Lys Arg Asp Ala Val Ile Tyr Phe Leu
            20                  25                  30

Lys Ile Trp
        35
```

<210> 248
<211> 94
<212> PRT
<213> Homo sapiens

<400> 248

```
Phe Arg Phe Ile Phe Phe Phe Phe Leu Arg Gln Ser His Ser Val Ala
1               5                  10                  15

Arg Leu Lys Cys Ser Asp Thr Val Ser Ala His Cys Asn Val Cys Leu
            20                  25                  30

Pro Asp Ala Ser Asp Ser Arg Ala Ser Ala Thr Glu Val Ala Gly Ile
        35                  40                  45

Thr Gly Met His His His Thr Pro Leu Ile Phe Val Phe Leu Val Glu
    50                  55                  60

Thr Glu Phe His His Val Gly Gln Ala Ala Asn Ser Ala Ala Gln Val
65                  70                  75                  80

Ile Leu Pro Pro Gln Leu Pro Lys Val Leu Ala Leu Gln Ala
                85                  90
```

<210> 249
<211> 17
<212> PRT
<213> Homo sapiens

<400> 249

Met Thr Glu Asp Ile Thr Tyr Thr Ile Ile Ile Thr Tyr Asn Ile Tyr
1 5 10 15

Asn

<210> 250
<211> 69
<212> PRT
<213> Homo sapiens

<400> 250

Leu Leu Gly Ser Ser Asp Pro Pro Ala Ser Ala Ser Gln Val Ala Gly
1 5 10 15

Thr Thr Gly Met Phe His His Thr Ser Leu Ile Leu Asn Ile Phe Cys
20 25 30

His Tyr Val Pro Gln Pro Gly Leu Lys Leu Leu Ala Ser Thr Ser Pro
35 40 45

Pro Ser Leu Thr Ser Gln Ser Val Arg Ile Met Gly Met Ser His Arg
50 55 60

Ala Trp Pro Thr Phe
65

<210> 251
<211> 43
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (4)..(16)
<223> X=any amino acid

<220>
<221> MISC_FEATURE
<222> (18)..(18)
<223> X=any amino acid

<400> 251

Met Tyr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Tyr Xaa Thr Ile Trp Leu Ala Ile Tyr Glu Pro Arg Pro Glu Gly Arg
20 25 30

Ala Asp Thr Lys Arg Arg Phe Leu Lys Met Ile
35 40

<210> 252
<211> 73
<212> PRT
<213> Homo sapiens

<400> 252

Met Glu Leu Leu Phe Ile Met Lys Ile Pro Lys Ser Ala Ala Glu Ile
1 5 10 15

Leu Lys Arg Glu Leu Leu Ile Thr Ile Asn Tyr Thr Ala Gln His Phe
20 25 30

Pro Phe Phe Leu Phe Phe Leu Val Pro Met Leu Gly Arg Lys Pro Glu
35 40 45

Tyr Glu Gln Glu Leu Phe Tyr Leu Leu Val Glu Lys Gly Gln Phe Ala
50 55 60

Val Glu Arg Met Cys Val Ser Ser Val
65 70

<210> 253
<211> 58
<212> PRT
<213> Homo sapiens

<400> 253

Met Val Leu Ile Met Asp Asp Arg Phe Phe Phe Leu Leu Ala Lys Leu
1 5 10 15

Glu Val Gly Asn Pro Arg Leu Leu Phe Leu Pro Phe Pro Lys Phe Gln
20 25 30

Ser Phe Thr Ser Leu Arg Asn Pro Arg Ile Ser Val Leu Lys Lys Leu
35 40 45

Lys Pro Leu Thr Arg Ile Arg Gly Cys Ala
50 55

<210> 254
<211> 79
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (29)..(73)
<223> X=any amino acid

<400> 254

Met Gly Ile Ser Ile Ser Thr Val Lys Phe Ala Ile His Gln Phe Lys
1 5 10 15

Gln Ser Ser Thr Ile Phe Phe Thr Arg Ile Leu Leu Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
50 55 60

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Ser Tyr Cys Leu Leu
65 70 75

<210> 255
<211> 82
<212> PRT
<213> Homo sapiens

<400> 255

Met Thr Val Phe Leu Met Glu Pro Glu Ile Asn Met Ala Phe Cys Leu
1 5 10 15

Pro Pro Asn Leu Cys Ala Ala Ile Ile Asn Val Val Ser Ile Val Leu
20 25 30

Gly Ile Gly Phe Val Ser Ala Ser Leu Glu Pro Ala Lys Glu Glu Met
35 40 45

Gln Lys Arg Leu Leu Tyr Ser Ser His Ser Ser Leu Lys Ser Ser Ser
50 55 60

Phe His Arg Asn Gly Leu Ser Gln Ala Gly Asn Asp Leu Leu His Cys
65 70 75 80

Trp Leu

<210> 256
<211> 24
<212> PRT
<213> Homo sapiens

<400> 256

Met Tyr Asn Ser Ser Gly Thr His Asp Asn Ile Thr Leu Asn Thr Gly
1 5 10 15

Gly Leu Ser Ser His Ser Leu Pro
20

<210> 257
<211> 1031
<212> PRT
<213> Homo sapiens

<400> 257

Met Val Lys Gly Ser Ile Gln Gln Glu Glu Leu Thr Ile Leu Asn Ile
1 5 10 15

Tyr Ala Pro Asn Thr Gly Ala Pro Arg Phe Ile Lys Gln Val Leu Ser
20 25 30

Asp Leu Gln Arg Asp Leu Asp Ser His Thr Leu Ile Met Gly Asp Phe
35 40 45

Asn Thr Pro Leu Ser Thr Leu Asp Arg Ser Thr Arg Gln Lys Val Asn
50 55 60

Lys Asp Thr Gln Glu Leu Asn Ser Ala Leu His Gln Ala Asp Leu Ile
65 70 75 80

Asp Ile Tyr Arg Thr Leu His Pro Lys Ser Thr Glu Tyr Thr Phe Phe
85 90 95

Ser Ala Pro His His Thr Tyr Ser Lys Ile Asp His Ile Val Gly Ser
100 105 110

Lys Ala Leu Leu Ser Lys Cys Lys Arg Thr Glu Ile Ile Thr Asn Tyr
115 120 125

Leu Ser Asp His Ser Ala Ile Lys Leu Glu Leu Arg Ile Lys Asn Leu
130 135 140

```
Thr Gln Ser Cys Ser Thr Thr Trp Lys Leu Asn Asn Leu Leu Leu Asn
145                 150                 155                 160

Asp Tyr Trp Val His Asn Glu Met Lys Ala Glu Ile Lys Met Phe Phe
                165                 170                 175

Glu Thr Asn Glu Asn Lys Asp Thr Thr Tyr Gln Asn Leu Trp Asp Ala
            180                 185                 190

Phe Lys Ala Val Cys Arg Gly Lys Phe Ile Ala Leu Asn Ala Tyr Lys
        195                 200                 205

Arg Lys Gln Glu Arg Ser Lys Ile Asp Thr Leu Thr Ser Gln Leu Lys
    210                 215                 220

Glu Leu Glu Lys Gln Glu Gln Thr His Ser Lys Ala Ser Arg Arg Gln
225                 230                 235                 240

Glu Ile Thr Lys Ile Arg Ala Glu Leu Lys Glu Ile Glu Thr Gln Lys
                245                 250                 255

Thr Leu Gln Lys Ile Asn Glu Ser Arg Ser Trp Phe Phe Glu Arg Ile
            260                 265                 270

Asn Lys Ile Asp Arg Pro Leu Ala Arg Leu Ile Lys Lys Lys Arg Glu
        275                 280                 285

Lys Asn Gln Ile Asp Thr Ile Lys Asn Asp Lys Gly Asp Ile Thr Thr
    290                 295                 300

Asp Pro Thr Glu Ile Gln Thr Thr Ile Arg Glu Tyr Tyr Lys His Leu
305                 310                 315                 320

Tyr Ala Asn Lys Leu Glu Asn Leu Glu Glu Met Asp Thr Phe Leu Asp
                325                 330                 335

Thr Tyr Thr Leu Pro Arg Leu Asn Gln Glu Glu Val Glu Ser Leu Asn
            340                 345                 350

Arg Pro Ile Thr Gly Ser Glu Ile Val Ala Ile Ile Asn Ser Leu Pro
        355                 360                 365

Thr Lys Lys Ser Pro Gly Pro Asp Gly Phe Thr Ala Glu Phe Tyr Gln
    370                 375                 380
```

```
Arg Tyr Lys Glu Glu Leu Val Pro Phe Leu Leu Lys Leu Phe Gln Ser
385                 390                 395                 400

Ile Glu Lys Glu Gly Ile Leu Pro Asn Ser Phe Tyr Glu Ala Ser Ile
                405                 410                 415

Ile Leu Ile Pro Lys Leu Gly Arg Asp Thr Thr Lys Lys Glu Asn Phe
            420                 425                 430

Arg Pro Ile Ser Leu Met Asn Ile Asp Ala Lys Ile Leu Asn Lys Ile
        435                 440                 445

Leu Ala Asn Arg Ile Gln Gln His Ile Lys Lys Leu Ile His His Asp
    450                 455                 460

Gln Val Gly Phe Ile Pro Gly Met Gln Gly Trp Phe Asn Ile Arg Lys
465                 470                 475                 480

Ser Ile Asn Val Ile Gln His Ile Asn Arg Ala Arg Asp Lys Asn His
                485                 490                 495

Met Ile Ile Ser Ile Asp Ala Glu Lys Ala Phe Asp Lys Ile Gln Gln
            500                 505                 510

Pro Phe Met Leu Lys Thr Leu Asn Lys Leu Gly Ile Asp Gly Thr Tyr
        515                 520                 525

Phe Lys Ile Ile Arg Ala Ile Tyr Asp Lys Pro Thr Ala Asn Ile Ile
    530                 535                 540

Leu Asn Gly Gln Lys Leu Glu Ala Phe Pro Leu Lys Thr Gly Thr Arg
545                 550                 555                 560

Gln Gly Cys Pro Leu Ser Pro Leu Leu Phe Asn Ile Val Leu Glu Val
                565                 570                 575

Leu Ala Arg Ala Ile Arg Gln Glu Lys Glu Ile Lys Gly Ile Gln Leu
            580                 585                 590

Gly Lys Glu Glu Val Lys Leu Ser Leu Phe Ala Asp Asp Met Ile Leu
        595                 600                 605

Tyr Leu Glu Asn Pro Ile Val Ser Ala Gln Asn Leu Leu Lys Leu Ile
    610                 615                 620
```

```
Ser Asn Phe Ser Lys Val Ser Gly Tyr Lys Ile Asn Val Gln Lys Ser
625                 630                 635                 640

Gln Ala Phe Leu Tyr Thr Asn Asn Arg Gln Thr Glu Ser Gln Ile Met
                645                 650                 655

Ser Glu Leu Pro Phe Thr Ile Ala Ser Lys Arg Val Lys Tyr Leu Gly
            660                 665                 670

Ile Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu Asn Tyr Lys
        675                 680                 685

Pro Leu Leu Lys Glu Ile Lys Glu Asp Thr Asn Lys Trp Lys Asn Ile
    690                 695                 700

Pro Cys Ser Trp Val Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu
705                 710                 715                 720

Pro Lys Val Ile Tyr Arg Phe Asn Ala Ile Pro Ile Lys Leu Pro Met
                725                 730                 735

Thr Phe Phe Thr Glu Leu Glu Lys Thr Thr Leu Lys Phe Ile Trp Asn
            740                 745                 750

Gln Lys Arg Ala Arg Ile Ala Lys Ser Ile Leu Ser Gln Lys Asn Lys
        755                 760                 765

Ala Gly Gly Ile Thr Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Thr
    770                 775                 780

Val Thr Lys Thr Ala Trp Tyr Trp Tyr Gln Asn Arg Asp Ile Asp Gln
785                 790                 795                 800

Trp Asn Arg Thr Glu Pro Ser Glu Ile Met Pro His Ile Tyr Asn Tyr
                805                 810                 815

Leu Ile Phe Asp Lys Pro Glu Lys Asn Lys Gln Trp Gly Lys Asp Ser
            820                 825                 830

Leu Phe Asn Lys Trp Cys Trp Glu Asn Trp Leu Ala Ile Cys Arg Lys
        835                 840                 845

Leu Lys Leu Asp Pro Phe Leu Thr Pro Tyr Thr Lys Ile Asn Ser Arg
    850                 855                 860

Trp Ile Lys Asp Leu Asn Val Arg Pro Lys Thr Ile Lys Thr Leu Glu
```

865 870 875 880

Glu Asn Leu Gly Ile Thr Ile Gln Asp Ile Gly Val Asp Lys Asp Phe
885 890 895

Met Ser Lys Thr Pro Lys Ala Met Ala Thr Lys Ala Lys Ile Asp Lys
900 905 910

Trp Asp Leu Ile Lys Leu Lys Ser Phe Cys Thr Ala Lys Glu Thr Thr
915 920 925

Ile Arg Val Asn Arg Gln Pro Thr Thr Trp Glu Lys Ile Phe Ala Thr
930 935 940

Tyr Ser Ser Asp Lys Gly Leu Ile Ser Arg Ile Tyr Asn Glu Leu Lys
945 950 955 960

Gln Ile Tyr Lys Lys Lys Thr Asn Asn Pro Ile Lys Lys Trp Ala Lys
965 970 975

Asp Met Asn Arg His Phe Ser Lys Glu Asp Ile Tyr Ala Ala Lys Lys
980 985 990

His Met Lys Lys Cys Ser Ser Ser Leu Ala Ile Arg Glu Met Gln Ile
995 1000 1005

Lys Thr Thr Met Arg Tyr His Leu Thr Pro Val Arg Met Ala Ile
1010 1015 1020

Ile Lys Lys Ser Gly Asn Asn Arg
1025 1030

<210> 258
<211> 24
<212> PRT
<213> Homo sapiens

<400> 258

Met Gly Lys Ile Gly Gly Gly Leu Asn Phe Val Lys Ile Leu Asn Gln
1 5 10 15

Val Ser Asp Ile Leu Ser Gly Ala
20

<210> 259
<211> 46
<212> PRT

<213> Homo sapiens

<400> 259

Arg Val Gly Tyr Ser Gly Ile Ile Ile Ala Tyr Cys Ser Leu Gln Leu
1 5 10 15

Leu Cys Ser Arg Asp Pro Pro Thr Ser Ala Ser Gln Val Ile Gly Thr
20 25 30

Ile Gly Met Cys His Cys Thr Trp Leu Leu Leu Ala Ile Leu
35 40 45

<210> 260
<211> 28
<212> PRT
<213> Homo sapiens

<400> 260

Met Gly Tyr His Met Gly Arg Arg Met Ser Met Leu Thr Cys Leu His
1 5 10 15

Arg Ser Phe Phe Leu Phe Leu Tyr Ser His Gln Phe
20 25

<210> 261
<211> 21
<212> PRT
<213> Homo sapiens

<400> 261

Met Asn Ile Val Lys Arg Lys Ser Pro Lys Tyr Pro Asn Leu Leu Asn
1 5 10 15

Leu Phe His Ile Glu
20

<210> 262
<211> 93
<212> PRT
<213> Homo sapiens

<400> 262

Tyr Val Phe Phe Phe Ala Asp Gly Val Ser Leu Leu Ser Pro Arg Leu
1 5 10 15

Glu Cys Ser Gly Ala Ile Ser Ala His Cys Asn Leu Cys Thr Pro Gly
20 25 30

Ser Ser Asp Ser Pro Ala Ser Ala Ser Ala Val Ala Gly Ile Pro Gly
35 40 45

Thr His Arg His Pro Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly
50 55 60

Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Leu Met Ile
65 70 75 80

Arg Pro His Gln Pro Pro Lys Val Leu Gly Leu Gln Ala
85 90

<210> 263
<211> 37
<212> PRT
<213> Homo sapiens

<400> 263

Met Cys Asp Asn His Gly Thr Lys Ser Arg Trp Thr Lys Trp Lys Tyr
1 5 10 15

Thr Val Val Arg Phe Leu Tyr Arg Ile Leu Asn Gly Val Met Ala Phe
20 25 30

Lys Ser Asn Leu Trp
35

<210> 264
<211> 31
<212> PRT
<213> Homo sapiens

<400> 264

Met Gly Pro Tyr Cys Met Ala Arg Leu Tyr Lys Ser Tyr Phe His Leu
1 5 10 15

Tyr Ile Ser Glu Lys Arg Leu Pro Ile Ser Ile Val Leu Ser Asp
20 25 30

<210> 265
<211> 64
<212> PRT
<213> Homo sapiens

<400> 265

Met Thr Gln Asn Phe Asp Pro Tyr Leu His Val Leu Asn Arg Gln Phe
1 5 10 15

```
Pro Pro Leu Gln Lys Ser Pro Pro Pro Trp Lys Ala Pro Thr Leu Pro
            20                  25                  30

Arg Val Pro Ala His Glu Ala Phe Ser Gly Ser Pro Ala Lys Val His
        35                  40                  45

Cys Cys Pro Leu His Ala Leu Leu Leu Tyr Thr Ala Pro Leu His Ala
    50                  55                  60
```

<210> 266
<211> 76
<212> PRT
<213> Homo sapiens

<400> 266

```
Gly Ser Ser Asp Ser Pro Ala Ser Thr Ser Gln Val Ala Gly Ile Ile
1               5                   10                  15

Gly Val Cys His His Thr Arg Leu Ile Phe Val Phe Leu Val Glu Thr
            20                  25                  30

Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser
        35                  40                  45

Asp Pro Pro Thr Ser Ala Ser Gln Thr Ala Gly Ile Thr Gly Val Ser
    50                  55                  60

His Arg Ala Gly Pro Leu Thr Ala Cys Ala Thr Phe
65                  70                  75
```